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E8257N

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Page 7



40 GHz

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RF CABLE & ANTENNA ANALYZER

GSA Agilent
N9912A

10%
OFF

The FieldFox RF Analyzer is the world’s most integrated handheld instrument for wireless network installation and maintenance. It combines cable/antenna analysis, spectrum analysis, power meter measurements and vector network analysis into one rugged, compact, lightweight and weather-resistant package.

Cable and Antenna Analyzer

- Frequency range: 2 MHz to 4 GHz and optional 6 GHz
- Directivity: > 42 dB
- Measurement speed: 1.5 ms / per point

Network Analyzer

- 2 MHz to 4 GHz and optional 6 GHz
- S11 magnitude and phase, S21 magnitude

Spectrum Analyzer

- Frequency range: 100 kHz to 4 GHz and optional 6 GHz
- DANL (displayed average noise level): -148 dBm / Phase noise: -88 dBc at 10 kHz
- TOI (third order inter-modulation distortion): +18 dBm
- Sweep speed:
1 second / full span (6 GHz)

Power Meter

- 9 kHz to 24 GHz U2000 Series
USB power sensor dependent

Vector Voltmeter

- large vector voltmeter display
- easily match two or more device’s electrical length
- ensures signals that travel on different devices have the same delay

Standard accessories include:
AC/DC adapter, battery, soft carrying case,
user manual and FieldFox Data Link software.



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Model	Description	MSRP	GSA Price
N9912A	FieldFox RF analyzer 4 GHz Cable and Antenna Analyzer	\$7,599.00	\$6,770.71
Option	Description	MSRP	GSA Price
N9912A-106	6 GHz Cable & Antenna Analyzer	\$1,002.00	\$892.78
N9912A-110	Transmission Measurement	\$1,360.00	\$1,211.76
N9912A-111	QuickCal	\$951.00	\$847.34
N9912A-230	4 GHz Spectrum Analyzer	\$3,699.00	\$3,295.81
N9912A-231	6 GHz Spectrum Analyzer	\$6,700.00	\$5,969.70
N9912A-235	Preamplifier for Spectrum Analysis Capability	\$750.00	\$668.25
N9912A-302	External USB Power Sensor Support	\$499.00	\$444.61
N9912A-303	Network Analysis Capability	\$499.00	\$444.61
N9912A-308	Vector Voltmeter	\$1547.00	\$1378.38

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SIGNAL ANALYZER

GSA Agilent EXA N9010A Series

**SAVE
\$3,452**

The Agilent EXA is the industry's fastest economy-class signal analyzer. Its speed and accuracy, coupled with its unprecedented performance and application coverage, provides development and manufacturing engineers with the capabilities to cost-effectively troubleshoot new designs, increase manufacturing throughput, or analyze complex and time-varying signals.

Seamlessly integrate a broad range of standards-based measurements with Agilent's industry leading 89600 vector signal analysis (VSA) software—all in a single instrument. In addition to the use of an open Windows® XP Professional operating system, the EXA provides an advanced signal analysis user interface. All measurement features and functions are intuitively grouped and accessible from the front panel or via a USB keyboard and mouse.



Model	Frequency Range	Includes	MSRP	GSA Price
N9010A-503	9 kHz–3.6 GHz	Comes Standard w/ 10 MHz Analysis Bandwidth	\$17,322.00	\$15,433.90
N9010A-507	9 kHz–7.0 GHz	Comes Standard w/ 10 MHz Analysis Bandwidth	\$26,033.00	\$23,195.40
N9010A-513	9 kHz–13.6 GHz	Comes Standard w/ 10 MHz Analysis Bandwidth	\$31,673.00	\$28,220.64
N9010A-526	9 kHz–26.5 GHz	Comes Standard w/ 10 MHz Analysis Bandwidth	\$34,740.00	\$30,953.34

HANDHELD SPECTRUM ANALYZER

GSA Agilent N9340B

**SAVE
\$927**

The N9340B handheld RF spectrum analyzer provides powerful features for field applications, superior performance to build the confidence in field test, and exceptional usability to enhance field productivity. 100 kHz to 3 GHz frequency range, 10 ms non-zero span sweep time, 30 Hz to 1 MHz RBW in 1-3-10 sequence, -144 dBm displayed average noise level (DANL) with pre-amplifier, +10 dBm third order intercept (TOI), 6.5" TFT color LCD for indoor and outdoor use, 4-hour battery, remote control via SCPI on USB and LAN port.



Model	Description	MSRP	GSA Price
N9340B	100 kHz–3 GHz Frequency Range Handheld Spectrum Analyzer	\$8,508.00	\$7,580.63
N9340B-PA3	Add 3 GHz Pre-amplifier	\$681.00	\$606.77
N9340B-TG3	Add 3 GHz Tracking Generator	\$2,252.00	\$2,006.53
N9340B-AMA	AM/FM Modulation Analysis	\$617.00	\$549.75
N9340B-DMA	ASK/FSK Modulation Analysis	\$617.00	\$549.75

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HIGH PERFORMANCE SPECTRUM ANALYZER

GSA Agilent
PSA Series

**SAVE
\$10,240**

High-performance spectrum analysis up to 50 GHz and beyond with powerful one-button measurements, a versatile feature set, and a leading-edge combination of flexibility, speed, accuracy, and dynamic range. From millimeter wave and phase noise measurements to spur searches and modulation analysis, the PSA Series offers unique and comprehensive high-performance solutions to R&D and manufacturing engineers in cellular and emerging wireless communications, aerospace, and defense. Use with Agilent 89601A Vector Signal Analysis software for powerful flexible signal and modulation analysis for communications and RADAR.



Model	Frequency Range	MSRP	GSA Price
E4440A	10 MHz–26.5 GHz	\$64,257.00	\$57,252.98
E4443A	10 MHz–6.7 GHz	\$55,174.00	\$49,160.03
E4445A	10 MHz–13.2 GHz	\$60,103.00	\$53,551.77
E4448A	3 Hz–50 GHz	\$93,953.00	\$83,712.12

MID RANGE PORTABLE SPECTRUM ANALYZER

GSA Agilent
ESA Series

**SAVE
\$4,891**

For general spectrum analysis of RF or microwave signals. Includes advanced set of firmware features and functions in an upgradeable platform. Optional measurement features available such as noise figure and phase noise. Select from the ESA's optional built-in demodulation analysis applications or use with the Agilent 89601A VSA software for full featured vector signal analysis. Robust chassis allows for reliable field or bench-top use. Measure up to 325 GHz using external mixers.



Model	Description	MSRP	GSA Price
E4403B	9 kHz–3.0 GHz	\$13,291.00	\$11,842.28
E4404B	9 kHz–6.7 GHz	\$23,012.00	\$20,503.69
E4405B	9 kHz–13.2 GHz	\$28,104.00	\$25,040.66
E4407B	9 kHz–26.5 GHz	\$34,109.00	\$30,391.12
E4407S-E57	40 GHz	\$44,878.00	\$39,986.30

COMPACT PORTABLE SPECTRUM ANALYZER

GSA Agilent
CSA Series

**SAVE
\$1,424**

Outstanding distortion performance, substantial noise performance, and standard 10 Hz resolution bandwidth. The instrument also offers overall amplitude accuracy of ± 0.5 dB (95%). With its small size, rugged package and battery operation, Agilent CSA is ideal for installation and field maintenance applications. Now you get all of this capability and more, with the optional Stimulus Response Measurement Suite that adds software and built-in signal source and bridge for fast, accurate, easy to use cable match and distance to fault testing.



Model	Frequency Range	MSRP	GSA Price
N1996A-503	100 kHz–3 GHz	\$9,546.00	\$8,505.49
N1996A-506	100 kHz–6 GHz	\$13,068.00	\$11,643.59

RF POWER METER

GSA Agilent
EPM Series E4418B, E4419B

**SAVE
\$684**

Low cost, high-performance, programmable RF power meters capable of measuring from -70dBm to +44dBm at frequencies from 9 kHz to 110 GHz. Utilize the 8480 and E series power sensors.

**TWO SIMULTANEOUS
POWER READINGS ON ONE DISPLAY!***



Model	Description	MSRP	GSA Price
E4418B	Single Channel	\$3,663.00	\$3,263.73
E4419B*	Dual Channel	\$6,277.00	\$5,592.80

See more products at www.gsamart.com

MICROWAVE ANALOG SIGNAL GENERATOR

GSA Agilent
MXG Series**SAVE
\$3,492**

N5183A MXG microwave analog signal generators deliver the performance needed for broadband component manufacturing up to 40 GHz. This instrument provides $\leq 900 \mu\text{s}$ frequency switching to improve test times, with a small 2RU size. Excellent power and level accuracy make the MXG microwave a reliable stimulus for driving high power devices. Can be configured to meet your test needs today, from LO substitution and CW interferer to analog modulation for device characterization, and is easily upgraded to meet your needs in the future.



Model	Frequency Range	MSRP	GSA Price
N5181A-501	250 kHz–1 GHz	\$6,635.00	\$5,911.79
N5182A-503	250 kHz–3 GHz	\$17,431.00	\$15,531.02
N5183A-520	100 kHz–20 GHz	\$19,225.00	\$17,129.48
N5183A-532	100 kHz–31.8 GHz	\$27,770.00	\$24,743.07
N5183A-540	100 kHz–40 GHz	\$32,042.00	\$28,549.42

40 GHz PEAK/PULSE POWER METER

GSA Agilent
P-Series**SAVE
\$1,149**

Wide bandwidth plus fast, accurate and repeatable power measurements makes the P-Series power meters and power sensors ideal for radar, pulsed component and satellite communications testing. Measurement capability includes: peak, average, peak-to-average ratio, rise time, fall time, pulse width, time to positive occurrence and time to negative occurrence; time-gated and free-run measurements. The 30 MHz bandwidth, combined with 100 MS continuous sampling allow the P-Series to specify a 13ns rise/fall time and measure down to 50 ns pulse widths. The P-Series is supplied as standard with GPIB, LAN and USB.



Model	Description	MSRP	GSA Price
N1911A	1 Channel Power Meter	\$7,501.00	\$6,683.40
N1912A	2 Channel Power Meter	\$10,547.00	\$9,397.37
N1921A	50 MHz–18 GHz Sensor	\$3,782.00	\$3,369.76
N1922A	50 MHz–40 GHz Sensor	\$4,425.00	\$3,942.67

GSA GSA contract products, (GS24F0066M, GS35F0311R, GS07F0198U, GS07F0437U). Small business credit applies. Free shipping FOB U.S. destinations.

USB POWER SENSOR

GSA Agilent
U2000 Series**SAVE
\$518**

The U2000 Series USB power sensors provide plug-and-play connectivity by eliminating the need for a separate power meter. Dynamic wide-range power sensors can be used with a PC or any Agilent USB-based instrument. With internal zeroing there is no need to disconnect the sensor or power off the device-under-test (DUT).



Model	Frequency Range	Connector	MSRP	GSA Price
U2000A	10 MHz–18 GHz	Type-N (m)	\$3,396.00	\$3,025.84
U2001A	10 MHz–6.0 GHz	3.5 mm (m)	\$2,603.00	\$2,319.27
U2002A	50 MHz–24 GHz	Type-N (m)	\$4,188.00	\$3,731.51
U2004A	9 kHz–6.0 GHz	Type-N (m)	\$2,943.00	\$2,622.21
U2000B	10MHz–18GHz	Type N	\$4,754.00	\$4,235.81
U2000H	10MHz–18GHz	Type N	\$3,848.00	\$3,428.57
U2001B	10MHz–6GHz	3.5mm	\$3,962.00	\$3,530.14
U2001H	10MHz–6GHz	3.5mm	\$3,056.00	\$2,722.90

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VECTOR NETWORK ANALYZER



Agilent
E5061A-502

SAVE
\$8,728

With its 115 dB dynamic range and 0.005 dB rms trace noise, provides the accuracy and speed required for many network measurement applications. The wide 30 kHz IF bandwidth (IFBW) and powerful digital processing provide unprecedented measurement speed. The S-parameter test set options offer full two-port calibration for optimum accuracy. Wide dynamic range allows precise evaluation of high rejection filters. E8508 Emulation.

Includes: E5061A-016 touch LCD screen, E5061A-100 fault location and SRL analysis, E5061A-250 S parameter test set 50 Ohm System Impedance with power cord, E5061A-810 key board, E5061A-820 mouse, E5061A-0BW service manual, E5061A-ABA English local, E5061A-903 USA power cord.

NEW ON
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Model	Description	MSRP	Gov Price
E5061A-502	300 kHz–1.5 GHz	\$22,738.00	\$14,010.00

RF POWER METER



Agilent
E4418B-E23/N

40% OFF

Power Meter Bundle includes:

E4418B—single channel power meter,
8481A—18 GHz -30 dBm to +20 dBm power sensor,
8481D—18 GHz -70 to -20 dBm power sensor,
11730A—power sensor cable,
34131A—transit case & manuals.

Up to 200 readings per second.

BEST VALUE



Model	Description	MSRP	Gov Price
E4418B-E23/N	Power Meter Bundle	\$6,345.00	\$3,816.00

40 GHz VECTOR NETWORK ANALYZER



Anritsu
37269NV

36% OFF

Comprehensive network analysis system designed for passive applications between 40 MHz and 40 GHz. Ideal for defense, satellite, radar and broadband communication applications. The 37269NV standard features include: multiple source control mode and frequency offset, E/O and O/E measurements, rear panel IF inputs, NxN calibration utility for mixer measurements, embed/de-embed application, high stability frequency reference and 1 Hz frequency resolution.

With: Network Analyzer System 40 MHz to 40 GHz (P/N 37269D), High Speed Time (Distance) Domain Capability (P/N 3700-2A), 3653 Type N Calibration Kit with sliding loads (P/N SC6650), SMA/3.5 mm Calibration Kit with sliding terminations (P/N 3650-1), K Connector Calibration Kit with sliding terminations (P/N 3652-1),

K(f)-K(m) Cable, 25 inches (2 each)
(P/N 3671K50-1), K(f)-GPC-7 Cable, 25 inches (2 each) (P/N 3671A50-1), Precision Adapter, DC to 18 GHz, 50 Ohm, GPC-7-N(f) (P/N 34ANF50), Precision adapter, DC to 18 GHz, 50 Ohm, and GPC-7-N(m) (P/N 34AN50).



Model	Description	MSRP	Gov Price
37269NV	40 GHz	\$106,550.00	\$68,428.00

PEAK/PULSE POWER METER



Agilent
P-Series

SAVE
\$6,946

Wide bandwidth plus fast, accurate and repeatable power measurements makes the P-Series power meters and power sensors ideal for radar, pulsed component and satellite communications testing. Measurement capability includes: peak, average, peak-to-average ratio, rise time, fall time, pulse width, time to positive occurrence and time to negative occurrence; time-gated and free-run measurements. The 30 MHz bandwidth, combined with 100 MS continuous sampling allow the P-Series to specify a 13ns rise/fall time and measure down to 50ns pulse widths. The P-Series is supplied as standard with GPIB, LAN and USB.



Model	Description	MSRP	Gov Price
N1911A-EO1	Includes N1921A & E9300A	\$13,553.73	\$6,912.00
N1911A-EO2	Includes N1921A Power Sensor	\$12,986.00	\$6,040.00

40 GHz VECTOR NETWORK ANALYZER

GSA Agilent
E8363B

SAVE
\$16,689

Make vector-error corrected mixer measurements, test multiport components, configure high-power amplifier test set-ups, or millimeter-wave measurements up to 110 GHz (with external mixing). Integrated 2-port test set with 4 receivers—enables TRM/LRM calibration for the most accurate on-wafer, in-fixture, and waveguide measurements. Integrated IMD and harmonic measurement capability.

External Probes to 325 GHz.



Model	Bandwidth	MSRP	GSA Price
E8362C	10 MHz–20 GHz	\$82,580.00	\$73,578.78
E8363C	10 MHz–40 GHz, 2 Port, 4 Receiver	\$105,941.00	\$94,393.44
E8364C	10 MHz–50 GHz	\$122,988.00	\$109,582.31
E8361C	10 MHz–67 GHz	\$153,104.00	\$136,415.67

HANDHELD CABLE AND ANTENNA TESTER

GSA Agilent
N9330B

10% OFF

N9330B is a handheld, easy to use, battery operated cable and antenna tester for field installation and maintenance. It measures return loss, SWR, cable loss and distance-to-fault test functions for wireless service providers (WSPs), Aerospace & Defense engineers and technicians, TV & Broadcasting customers and contractors for the above.



Model	Frequency Range	MSRP	GSA Price
N9330B	25 MHz–4 GHz	\$7,224.00	\$6,436.59

RF NETWORK ANALYZER

GSA Agilent
ENA-L E5061A

SAVE
\$2,256

The E5061A general purpose network analyzers provide reliable basic S-parameter measurements with easy-to-use features and solid performance based on the latest in modern technologies.

- Integrated T/R or S-parameter test set
- 50 or 75 ohm test port impedance
- 120 dB dynamic range and 0.005 dB rms trace noise
- Built-in Visual Basic® for Applications (VBA)



Model	Description	MSRP	GSA Price
E5061A	300 kHz–1.5 GHz	\$14,741.00	\$13,134.23
E5062A	300 kHz–3 GHz	\$20,699.00	\$18,442.81

GSA GSA contract products, (GS24F0066M, GS35F0311R, GS07F0198U, GS07F0437U). Small business credit applies. Free shipping FOB U.S. destinations.

RF NETWORK ANALYZER

GSA Agilent
ENA E5071C

SAVE
\$3,384

The E5071C network analyzer offers the highest RF performance and fastest speed in its class, with a wide frequency range and versatile functions. The E5071C is the ideal solution for manufacturing and R&D engineers evaluating RF components and circuits for frequency range up to 20 GHz.



Model	Frequency Range	MSRP	GSA Price
E5071C-240	2-Port, 9 kHz–4.5 GHz	\$31,053.00	\$27,668.22

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40 GHZ PSG ANALOG SIGNAL GENERATOR



Agilent
E8257N

73%
OFF

Providing premium performance at an affordable price, the E8257N PSG analog signal generator delivers superior level accuracy, low phase noise, and precision analog modulation for accurate characterization of RF and microwave components and devices. The PSG sets a new price performance mark by providing advanced capabilities; including ramp sweep for continuous sweep measurements and fully automated use with the Agilent 8757D scalar network analyzer.

The E8257N is a special version of the E8257D specially made for the Navy and available to other federal agencies through GSAMart. Please review the data sheet to ensure that the E8257N will fulfill your requirements.

LOW PAHASE NOISE
& ANALOG MODULATION



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CONTRACT

Model	Frequency Range	Description	MSRP	GOV Price
E8257N	10MHz–40GHz	+7dbm to -105dbm, AM/FM/Phase Modulation/Pulse Modulation	\$67,550.00	\$17,632.00

SIGNAL GENERATOR



Agilent
E4428C ESG Series

SAVE
\$2,828

Excellent all-inclusive RF and analog modulation performance up to 3 or 6 GHz. The E4428C ESG analog signal generator delivers outstanding spectral purity, level accuracy, output power, and analog modulation performance up to 3 or 6 GHz for all general-purpose test needs. This makes the E4428C ESG a superb choice for general-purpose tests requiring CW, AM, ØM, and FM receiver and component test signals in the cellular, ISM, and UNII frequency bands.



Model	Frequency Range	Description	MSRP	GOV Price
E4428C-503	250 KHz–3 GHz	Electronic Attenuator Standard	\$19,610.00	\$17,472.51
E4428C-506	250 KHz–6GHz	Mechanical Attenuator Only	\$24,512.00	\$21,840.19

Federal contractors and government agencies are eligible for savings.

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40 GHz SPECTRUM ANALYZER



Rohde & Schwarz FSP-38

**63%
OFF**

Full-featured 9 kHz–40 GHz spectrum analyzer with the smallest level measurement uncertainty in its class at an unbeatable price. Physically robust and reliable with excellent RF characteristics.

- Resolution bandwidth 1 Hz–10 MHz
- Displayed average noise level -155 dBm (1 Hz)
- 3-year warranty

SUPER-HETERODYNE RECEIVER

This NAVICP model includes: FSP-B1, FSP-B4, FSP-B10 and FSP-B20.



Model	Description	MSRP	Gov Price
FSP-38	9 kHz–40 GHz, 140–+30 dBm, RBW 10 Hz–10MHz, TFT Color Display	\$45,715.00	\$16,656.00
Options	Description	MSRP	Gov Price
FS-K30	Firmware for Noise Figure & Gain Measurements for FSMR, FSP, FSQ, FSU	\$6,070.00	\$6,009.30
FS-K40	Firmware for Phase Noise for FSMR, FSP, FSQ, FSU	\$4,900.00	\$4,655.00
FS-K7	AM/FM/PM Measurement Demodulator	\$2,500.00	\$2,475.00
FS-K9	Measurements with NRP Power Sensors (NRPZ11/Z21/Z23/Z24/ Z51/Z55/Z91)	\$660.00	\$653.40
FSP-B16	LAN Interface to 10/100 BaseT	\$980.00	\$970.20
FSP-B29	20 Hz Frequency Extension	\$1,250.00	\$1,237.50
FSP-B30	DC Power Supply	\$1,305.00	\$1,291.95
FSP-B31	NiMH Battery Pack	\$1,780.00	\$1,762.20
FSP-B3	Audio Demodulator AM/FM for FSP Internal Speaker, Control & Phone Connection	\$680.00	\$673.20
FSP-B6	TV Trigger & Adjustable RF Power Trigger (40 dB)	\$1,300.00	\$1,287.00
FSP-B9	Tracking Generator 9 kHz–3.6 GHz, I/Q Modulator	\$3,830.00	\$3,791.70

6 GHz HANDHELD SPECTRUM ANALYZER



Rohde & Schwarz FSH6

**SAVE
\$11,350**

Hand-held design ideal for remote installation and maintenance. Large number of measurement functions and excellent characteristics for research, development and service tasks. Ideal spectrum analyzer for rapid, high-precision, cost-effective signal investigations.

*FSH6-N & FSH-NTG includes: 6 GHz handheld spectrum analyzer (P/N FSH6), remote control capability (P/N FSH-K1), soft carry bag (P/N FSH-Z25), and USB interface cable (P/N FSH-Z37). FSH-K1 Remote Control Capability, FSH-Z25 Soft Carrying Case, FSH-Z37 USB Interface Cable, External AC Power Supply, Operating Manual, and Headphones.



Model	Max Frequency	Includes	MSRP	Gov Price
FSH6-N*	6 GHz	Preamplifier	\$14,040.00	\$3,881.00
FSH6-NTG*	6 GHz	Tracking Generator, Preamplifier	\$17,440.00	\$6,090.00



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HANDHELD SPECTRUM ANALYZER

GSA Rohde & Schwarz FSH4/8

**FREE
7-DAY
TRIAL**

The FSH4/8 spectrum analyzer is rugged, handy and designed for use in the field. Its low weight, its simple, well-conceived operation and the large number of measurement functions make it an indispensable tool for anyone who needs an efficient measuring instrument for outdoor work.

- Frequency range from 9 kHz to 3.6 GHz or 8 GHz
- High sensitivity (-141 dBm (1 Hz), with preamplifier -161 dBm (1 Hz))
- Low measurement uncertainty (<1 dB)
- Measurement functions for all important measurement tasks related to the startup and maintenance of transmitter stations
- Internal tracking generator and VSWR bridge with built-in DC voltage supply
- Two-port network analyzer
- LAN and USB interface for remote control and transfer of measurement data



Model	Frequency Range	MSRP
FSH4	9 kHz–3.6 GHz	\$8,950.00
FSH8	9 kHz–8 GHz	\$13,150.00

**Call For
Best Price**

18 GHz HANDHELD SPECTRUM ANALYZER

GSA Rohde & Schwarz FSH18

**FREE
7-DAY
TRIAL**

The FSH18 is the ideal spectrum analyzer for rapid, high-precision, cost-effective signal investigations. It provides a large number of measurement functions and so can handle anything from the installation or maintenance of a mobile radio base station up to on-site fault location in RF cables as well as development and service—an extensive range of applications.

- Robust edge protection, carrying handle
- Easy operation
- Four hours operating time on battery
- Storage of up to 256 traces and setups
- Easy data transfer to PC
- High measurement accuracy
- Best RF characteristics in its class



Model	Frequency Range	MSRP
FSH18	10 MHz–18 GHz	\$18,500.00

**Call For
Best Price**

SIGNAL GENERATOR

GSA Rohde & Schwarz SMx100A Series

The Rohde & Schwarz SMx100A series offers a variety of analog and digital signal generators with a starting frequency of 9 kHz and ranging up to 6 GHz.

- The SMA100A is a high-end instrument with outstanding performance in SSB phase noise, wideband noise and non-harmonics.
- The SMB100A sets new standards in the midrange with good RF performance and output power up to typically +25 dBm.
- The SMBV100A is a vector signal generator that can be equipped with an internal baseband generator to allow generation of a number of digital standards such as 3G99, GPS, GSM, 801.11 & 801.16.
- The SMC100A smallest size (half rack X 2U!) and best price/performance ratio in its class.



Model	Note	Base MSRP	1.1 GHz MSRP	2.2 GHz MSRP	3.2 GHz MSRP	6 GHz MSRP
SMA100A	Precision	\$3,260.00	-	-	\$15,470.00	\$20,670.00
SMB100A	Mid range	\$1,810.00	\$4,740.00	\$5,980.00	\$6,600.00	\$13,910.00
SMBV100A	Vector	\$3,300.00	-	-	\$12,000.00	\$21,000.00
SMC100A	Economy	\$1,500.00	\$3,800.00	-	\$5,700.00	-

**Call For
Best Price**

Federal contractors and government agencies are eligible for savings.



See more products at www.gsamart.com

VECTOR NETWORK ANALYZER

GSA Anritsu VectorStar MS4640A Series

Anritsu's MS4640A VNA offers the broadest coverage in a single instrument, 70 kHz to 70 GHz. The additional two decades at the low end are even more impressive than the guaranteed 70 GHz coverage on the high end, for better device modeling without having to switch to another RF VNA. The industry leading 100 dB dynamic range at 70 GHz, coupled with excellent raw performance, will offer the best accuracy and stability to the toughest measurements. And when you can achieve synthesized sweeps at the industry fastest 20 μ s/point, while achieving greater than 80dB sensitivity, the result is the best all-around VNA available on the market today, and for a long time to come.



**SAVE
\$6,957**

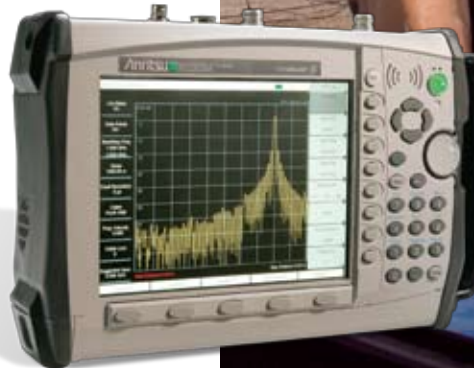
Model	Description	MSRP	GSA Price
MS4642A	10 MHz to 20 GHz, 2-port, K(male)	\$80,950.00	\$77,307.25
MS4644A	10 MHz to 40 GHz, 2-port, K(male)	\$104,950.00	\$100,227.25
MS4647A	10 MHz to 70 GHz, 2-port, V(male)	\$154,600.00	\$147,643.00

2 PORT NETWORK ANALYZER/SPEC. ANALYZER

GSA Anritsu VNA Master

Providing high performance 1-port and 2-port measurements from 2 MHz to 6 GHz. Better than three hour battery life. Flexibility to make measurements anywhere. Key measurement features include: Vector corrected 1-port and 1-path 2-port measurements, Vector Voltmeter, Return Loss, Cable Loss, VSWR, Smith Chart, 1-Port Phase, 2-Port Phase, Distance-To-Fault (RL/VSWR).

Standard accessories include: MS2024A/MS2026A User's Guide (P/N 10580-00166), Soft Carrying Case (P/N 65729), Master Software Tools CD ROM (P/N 2300-498), Rechargeable Li-Ion Battery (P/N 633-44), AC/DC Adapter (P/N 40-168-R), Automotive Cigarette Lighter/12 Volt DC Adapter (P/N 806-141), 10 ft. USB A-to Mini B Cable (P/N 3-2000-1498), 7 ft Ethernet Cable (P/N 2000-1371), 2 GB USB Memory Drive (P/N 2000-1520-R), 7 ft Crossover Cable (P/N 3-806-152), 2512 MB Compact Flash Card (P/N 3-2000-1567) and One Year Warranty.



**SAVE
\$987**

Model	Description	MSRP	GSA Price
MS2024A	VNA Master, 2 MHz-4 GHz	\$12,500.00	\$11,937.50
MS2026A	VNA Master, 2 MHz-6 GHz	\$14,900.00	\$14,229.50
MS2034A	VNA Master & Spectrum Analyzer 9 kHz-4 GHz	\$16,950.00	\$16,187.25
MS2036A	VNA Master & Spectrum Analyzer 9 kHz-7.1 GHz	\$21,950.00	\$20,962.25
MS20xxA-015	Vector Voltmeter Option	\$695.00	\$663.73

GSA GSA contract products, (GS24F0066M, GS35F0311R, GS07F0198U, GS07F0437U). Small business credit applies. Free shipping FOB U.S. destinations.



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Call toll free 6AM–6PM (PST) 888-665-2765

70 GHz SIGNAL GENERATOR

GSA Anritsu
MG3690B Series

Excellent performance with outstanding output power, best in class spectral purity, digital/analog frequency sweeping, and internal/external-drive amplitude, frequency, phase and pulse modulations. Applications to 325 GHz.



SAVE
\$2,394

Model	Frequency Range	Max Output Power	MSRP	GSA Price
MG3691B	2 GHz–10 GHz	13 dB	\$17,800.00	\$16,999.00
MG3692B	2 GHz–20 GHz	13 dB	\$19,750.00	\$18,861.25
MG3693B	2 GHz–30 GHz	6 dB	\$29,350.00	\$28,029.25
MG3694B	2 GHz–40 GHz	6 dB	\$32,900.00	\$31,419.50
MG3695B	2 GHz–50 GHz	3 dB	\$46,950.00	\$44,837.25
MG3696B	2 GHz–70 GHz	3 dB	\$65,200.00	\$62,266.00
MG3690B/4	Option 4, RF Coverage 10 MHz–2.2 GHz	-	\$2,550.00	\$2,435.25

SPECTRUM SIGNAL FFT ANALYZER

GSA Anritsu
LMR Master™ S412D

The LMR Master is the ideal instrument for technicians and engineers testing the RF performance of P25 and iDEN radios in the VHF/UHF, 400 MHz, 700 MHz, and 800 MHz bands. It can be configured to be equipped with a cable & antenna analyzer, spectrum analyzer, interference analyzer, channel scanner, RSSI, AM/FM demodulation, RF power meter, GPS receiver, and P25 Tx Signal Analyzer P25 RF measurements, P25 Talk-Out Coverage Measurements, and iDEN Signal Analyzer. The high performance 25 MHz to 1600 MHz cable & antenna analyzer can be used to sweep cables and antenna systems. Frequency Domain Reflectometry (FDR) based Return Loss and VSWR measurements are used to characterize antenna systems. The Distance-To-Fault (DTF) measurement can easily spot poor connections, contamination, damaged cables, and water penetration.



Model	Description	MSRP	GSA Price
S412D	Multi-function Radio Tester	\$9,950.00	\$9,502.25

Federal contractors and government agencies are eligible for savings.

CABLE & ANTENNA ANALYZER

GSA Anritsu Site Master S330 Series

**SAVE
\$463**

Site Master's Frequency Domain Reflectometry based Return Loss, SWR, Cable Loss, and Distance-To-Fault measurements break away from the traditional fix after failure maintenance process by finding small, hard to identify problems before major failures occur. This light weight 5 lbs instrument was specifically designed for field environments and can easily withstand the day-to-day punishment of field use.



Model	Freq. Range	Spec. Anl. Range	MSRP	GSA Price
S331D	2 MHz–6 GHz	-	\$7,160.00	\$6,837.80
S332D	2 MHz–6 GHz	100 kHz–3 GHz	\$10,300.00	\$9,836.50
PSN50	High Accuracy Power Sensor 50 MHz–6 GHz		\$1,700.00	\$1,623.50

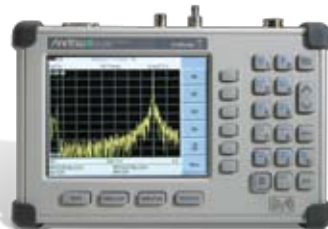
BROADBAND CABLE & ANTENNA ANALYZER

GSA Anritsu Site Master S800 Series

**SAVE
\$924**

This Site Master is a battery operated handheld for microwave communication systems field installation, verification, troubleshooting and repair. Ideal TDR replacement tool for avionics, radar and military communication line sweeping and fault detection. Technical sophistication in a ruggedized, lightweight, compact and high-impact housing. Weather resistant seals and a rubber membrane keypad protects unit from dirt and moisture.

**ADD THE
PSN50 POWER SENSOR
TO TROUBLE SHOOT
YOUR PROJECTS'
MOST DIFFICULT
PROBLEMS.**



Model	Frequency Range	MSRP	GSA Price
S810D	25 MHz–10.5 GHz	\$13,600.00	\$12,988.00
S820D	25 MHz–20 GHz	\$20,550.00	\$19,625.25
PSN50	High Accuracy Power Sensor 50 MHz–6 GHz	\$1,700.00	\$1,623.50

BASE STATION ANALYZER

GSA Anritsu Cell Master MT8212B

**SAVE
\$628**

The MT8212B Cell Master combines all of the tools required for maintaining and troubleshooting base stations. Functionality includes: cable and antenna analyzer, spectrum analyzer, AM/FM demodulator, power meter, channel scanner, transmission measurement, interference analyzer, GPS receiver, CDMA One/CDMA 2000 1x measurements, CDMA 2000 1xEV-DO measurements, GSM measurements, iDEN and T1/E1 analyzer.



Model	Description	MSRP	GSA Price
MT8212B	Cable & Antenna Analyzer & Power Meter 4-5 MHz–3 GHz	\$13,950.00	\$13,322.25
PSN50	High Accuracy Power Sensor 50 MHz–6 GHz	\$1,700.00	\$1,623.50

MICROWAVE SPECTRUM ANALYZER

GSA Anritsu MS271xB

**SAVE
\$920**

Advanced Spectrum Analysis for Manufacturing, R & D and General Purpose Testing. Frequency ranges embrace most of the wireless communications and defense RF and Microwave testing needs. Wide, 100 dB dynamic range, excellent spectral purity, with typical phase noise of –110 dBc/Hz at 10 kHz offset (MS2717B). Increased repeatability and throughput of local oscillator testing. Outstanding value for lowering cost-of-test and reducing capital equipment expenditures.



Model	Bandwidth	MSRP	GSA Price
MS2717B	9 kHz–7.1GHz	\$13,450.00	\$12,844.75
MS2718B	9 kHz–13 GHz	\$17,450.00	\$16,664.75
MS2719B	9 kHz–20GHz	\$20,450.00	\$19,529.75

GSA GSA contract products, (GS24F0066M, GS35F0311R, GS07F0198U, GS07F0437U). Small business credit applies. Free shipping FOB U.S. destinations.

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PEAK AND PULSE POWER METERS

GSA Anritsu ML2400 Series Power Meters

**SAVE
\$422**

Anritsu offers the world's most comprehensive range of power meters. The ML2490A series has the best in class sample rate of 1 GS/s and 65 MHz bandwidth essential for measuring narrow fast rising-edge pulse power measurements (e.g. radar). The best in class ML2480B series has a sample rate of 64 MS/s and 20 MHz bandwidth suited for wideband power measurements on signals such as W-CDMA, WLAN, and WiMAX.



Choose from six different families of MA2400/MA24000 series power sensors with frequency coverage to 50 GHz and dynamic range up to 90 dB.

Model	Description	MSRP	GSA Price
ML2495A	Wideband Peak, 1 Ch, 65 MHz	\$7,185.00	\$6,861.67
ML2496A	Wideband Peak, 2 Ch, 65 MHz	\$9,385.00	\$8,962.67
ML2487B	Wideband, 1 Ch, 20 MHz	\$5,270.00	\$5,032.85
ML2488B	Wideband, 2 Ch, 20 MHz	\$6,220.00	\$5,940.10
MA2490A	Wideband Sensor, 50 MHz–8 GHz	\$2,690.00	\$2,568.95
MA2411B	Pulse Profiling, 300 MHz–40 GHz	\$3,600.00	\$3,438.00

USB POWER SENSOR

GSA Anritsu MA24106A

**WORKS WITHOUT
POWER METER**

The MA24106A USB power sensor eliminates the need of a traditional power meter. It is a highly accurate, standalone instrument that communicates with a PC via USB. The power measurement capability of MA24106A is intended to mimic that of a traditional thermal (thermo-electric) power sensor with a wider dynamic range. It is ideal for measuring average power of CW, modulated RF waveforms 3G, 4G, OFDM, and multi-tone signals. It measures true RMS power regardless of the type of the input signal. The presence of a micro-controller along with signal conditioning circuitry, ADC, and power supply in the sensor makes it a complete miniature power meter. The Anritsu Power Meter application for personal computers running Microsoft Windows can be used to control and operate the sensor. It is available standard with the product.



Model	Description	MSRP	GSA Price
MA24106A	USB Power Sensor	\$2,400.00	\$2,292.00

3–6 GHz VECTOR/ARB SIGNAL GENERATOR

GSA Anritsu MG3700A

**SAVE
\$1,384**

Vector signal generator with integrated arbitrary waveform generator that supports digital modulation of signals for all major wireless communication systems including wireless LANs. A 160 MHz high-speed arbitrary waveform baseband generator, wide vector modulation bandwidth, and large capacity ARB memory provide signal generation for next generation wireless communication systems. Combined with the MS2781A, it creates the ideal test platform for unique GPS, SDR, and JTRS waveform generation, capture, and testing. An option extends upper frequency to 6 GHz.



Model	Description	MSRP	GSA Price
MG3700A	250 kHz–3 GHz	\$30,770.00	\$29,385.37
MG3700A-011	6 GHz Option	\$8,792.00	\$8,396.37

MICROWAVE SIGNAL GENERATOR

GSA Anritsu MG37020A

**SAVE
\$1,091**

The MG37022A Fast Switching Microwave Signal Generator covers both RF and microwave frequencies from 10 MHz to 20 GHz. With 100 µsec per point typical switching speed it is an ideal signal source for RF and microwave applications requiring frequency agility, including data intensive applications such as antenna testing and satellite payload testing, high throughput applications such as RFIC and MMIC testing, and defense applications including radar and EW receiver testing.

The MG37022A also offers high output power, low phase noise, excellent spectral purity, and high performance pulse modulation.



Model	Frequency Range	MSRP	GSA Price
MG37022A	10 MHz–20 GHz	\$24,250.00	\$23,158.75

MILITARY RADIO TEST SET



Aeroflex 3515

**SAVE
\$5,836**

Aeroflex Military Radio Test Set with the latest in portability, battery life and performance. Developed for military use and is capable of measuring high power (20 watts without an external attenuator, up to 200 watts with an external attenuator provided), as well as finding faults in antennas, power amplifiers and interconnects. The 3515 meets the needs of a variety of vehicle radio tests, as well as commercial radio applications. With extensive operational capability, provides portable test features that are typically found in bench top radio test equipment.

*Aeroflex 3515N Includes: 3515 1 GHz Handheld Radio Test Set, Accessory Box 3500/3515 (For Adaptors), Soft Side Carrying Case 355/3515, Hard-side Case, Short/Open/Load VSWR Adaptor 1 GHz, Fuse 5A 32V Mini Blade, qty 2, Power Supply Cord AC 120V, Cable Assembly Microphone, Mech Assembly Handset, Mach Assembly Break out Box of USB and Audio, Power Supply, Connector, Female BNC/TNC (qty 5), Cable, BNC Male/BNC Male (qty 5), Cable, TNC Male/TNC Male, DC Cable-Cigarette Adaptor, Battery-Satndard, CD/OP Manual, Getting Started Manual, Antenna 800MHz, Antenna 150MHz, Antenna 450MHz, Antenna 50MHz, N to BNC Adaptor, N Male to TNC Male Adaptor, Female to MNC Female Adaptor, qty 2, Attenuator 50W, Attenuator 150W, NATO Plug Kit for DC Power, Flip Cover, H-250 Military Handset Mechanical Adaptor.



Model	Description	MSRP	Gov Price
3515A	Military-Spec VHF/UHF Radio Test Set, Ground & Airborne Applications	\$14,692.00	\$14,398.16
3515N	*See Note For All Items Included	\$14,900.00	\$9,064.00

SWITCHING FREQUENCY SYNTHESIZER



Aeroflex FS5000 Series

**SAVE
\$7,645**

Developed to support the most stringent military requirements. The architecture as well as its implementation has been specifically geared to furnishing military qualified, high reliability units Ideal for: agile radar and radar simulators, radar upgrades, fast antenna and RCS measurements, electronic warfare systems and ultra fast ATE.



**RADAR
TESTING**

Model	Frequency Range	MSRP	GSA Price
FS5000B-13	0.3 GHz-13.5 GHz	\$130,900.00	\$124,355.00
FS5000B-18	0.3 GHz-18.0 GHz	\$136,400.00	\$129,580.00
FS5000B-20	0.3 GHz-20.0 GHz	\$141,900.00	\$134,805.00
FS5000B-26.5	0.3 GHz-26.5 GHz	\$152,900.00	\$145,255.00



GSA contract products, (GS24F0066M, GS35F0311R, GS07F0198U, GS07F0437U). Small business credit applies. Free shipping FOB U.S. destinations.

RADIO COMMUNICATION TEST SYSTEM



Aeroflex RCTS Series

**SAVE
\$3,957**

Self-contained, transportable, semi-automated Radio Test Systems presently fielded for use by the US Armed Forces. These instruments are used for operational verification testing and/or repairs of multiple radio systems. Full functional testing of all operational modes are available.

Ships only to USA address, ITAR controlled.



Model	Radio Platform	MSRP	GSA Price
RCTS-001	SINCGARS	\$52,990.00	\$50,339.95
RCTS-002	ARC-222 & ARC-186	\$79,127.00	\$75,170.65
RCTS-002HQ	ARC-222, ARC-186, ARC-164	\$84,999.00	\$80,749.05
RCTS-003B	LRUs (i.e. PRC-xxx & URT-xxx)	\$52,936.00	\$51,877.28



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PROJECT 25 RADIO TEST SET



Aeroflex
2975

**16%
OFF**

Full-featured communications service monitor for complete transmitter spectrum performance testing. Swept antenna/transmission line testing. At-a-glance troubleshooting. Standard with digitized 2.7 GHz spectrum analyzer and dual-channel digital storage oscilloscope. More than 20 discrete instruments integrated into a single platform.

Both the 2975F and the 2975N include: Opt. 3: SmartNet/SmartZone testing, Opt. 10: AES (export restricted), Opt. 12: KVL keyloader, accessory bundle (p/n AC25100): microphone/audio adapter (p/n AC25007), soft padded carrying case (p/n AC25012), front/rear cover (p/n AC25023), TNC to BNC adapter (p/n AC25027), accessory pouch (p/n AC25029), hard case (p/n AC25011). The 2975N also includes: Opt. 4: P25 trunking radio test, and Opt. 14: P25 trunking VHF/UHF 700 MHz.



Model	Includes	MSRP	Gov Price
2975	AC25007 Microphone/Audio Adapter	\$21,495.00	\$20,419.80
2975F	See Note	\$29,754.00	\$26,646.00
2975N	See Note	\$34,554.00	\$28,850.00

COMMUNICATIONS SERVICE MONITOR



Aeroflex
2947A

**45%
OFF**

The 2947A communications service monitor is built to meet the demanding requirements of US Navy and Federal Aviation Administration radio communications testing. It provides an excellent combination of spectrum analyzer, tracking generator, RF power meter, 50 kHz digital oscilloscope and two variable audio generators in a single instrument.

The 2947A includes: Option 15 EDACST[™] Radio Test, Option 16 EDACST[™] Repeater Test, Option 30 Bail Arm and Front Panel Stowage Cover, AC Supply Lead (23422/005), DC Supply Lead (43138/755), BNC Telescopic Antenna (54421/001), Microphone with PTT (Push To Talk) (44991/145), Operating manual (46882/285), Service manual (46882/286) and Training tape.



Model	Description	MSRP	Gov Price
2947A	50 kHz	\$26,589.00	\$14,410.00

PROGRAMMABLE RF TESTER



Aeroflex
SDX 2000

**SAVE
\$1,030**

This fully programmable RF tester that provides complete test capability for all commercial and military pulsed L-Band avionics: ATCRBS and Mode-S Transponder (including data link), DME, TACAN and IFF (Identification Friend or Foe).



Model	Description	MSRP	GSA Price
SDX 2000-110	RF Tester	\$51,500.00	\$50,470.00
SDX 2000-220	RF Tester	\$51,500.00	\$50,470.00

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DUAL WAVELENGTH MULTIMODE OTDR



JDSU-Acterna TB6000 Series

T-BERD® 6000 Field Rugged Mini OTDR Test Set with 8.4 inch color display (high visibility), two USB ports, one Ethernet port, one Lithium Ion battery, one soft carrying bag, one AC/DC adapter/charger, one user manual, one USB memory stick, and one Multimode OTDR module with ST/PC connector. Total Weight is less than 7lbs.



**64%
OFF**

Model	Description	Gov Price
TB6000-NV-P1	850/1300nm, 25/23dB	\$5,662.00
TB6000-NV-P2	1310/1550nm, 40/38dB	\$5,906.00
MMOTDR-NV-P1	25/23 dB at 850/1300nm	\$3,509.00
SMOTDR-NV-P2	40/38dB at 1310/1550nm	\$3,753.00
SRLOTDR-NV-P3	25/23 db (MM) & 40/38dB (SM)	\$7,875.00

**HIGHLY INTEGRATED
FIELD OPTICAL
TEST SOLUTION**

OC3 COMMUNICATION NETWORK TEST SET



JDSU-Acterna FB8000-NV-P1

The FIREBERD 8000 provides test functionality for a wide variety of interfaces such as ATM, RS-232/V.24, EIA-530, V.35/306, RS-449/V.36, X.21, MIL-188C, MIL-188-114, and conditioned diphas. The FB8000-NV-P1 includes modules for testing over Ethernet, ISDN PRI, Fractional T1, DS1/DS3/OC3. Key functionality includes: BER test patterns, transmit clock sources, internal clock synthesizer, error insertion, signaling lead control, self loop, asynchronous operation, and remote operation.

The FB8000-NV-P1 includes the following modules and options: Test Pad Mainframe (P/N 2000-V6), FB8000 Data Communications Test Module (P/N FB8000), DS1/DS3/OC3 Test Module (P/N TB2310-OC3ST), Diphas Module (P/N FB8000-DPH), ISDN PRI Option (P/N TB2310-PRI), DS3 Receive Option (P/N TB2310-DUALRX), Fractional T1 Option (P/N TB2310-FT1), Clock Recovery Option (P/N FB8000-CLK), Remote GUI Software Option (P/N 2000-NET), Ethernet 10/100 Base T PCMCIA Card (P/N 2000-LAN), VT100 Emulation (P/N 2000-VT100), Signaling analysis (P/N TB2310-SIG), VF PCM TIMS analysis (P/N TB2310-TIM), DS1 and DS3 ATM Analysis (P/N TB2310-ATM-DSN).



**SAVE
\$11,424**

Model	Description	MSRP	Gov Price
FB8000-NV-P1	TIMS/ISDN/FT1/DS1/DS3/OC3	\$44,735.60	\$33,311.00



GSA contract products, (GS24F0066M, GS35F0311R, GS07F0198U, GS07F0437U). Small business credit applies. Free shipping FOB U.S. destinations.



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40 GHz SIGNAL GENERATOR



Anritsu
68369A/NV

**60%
OFF**

40GHz synthesized signal generator provides the ultimate performance at unbeatable price. Low Single Sideband (SSB) phase noise. Comprehensive internal/external modulation and analog sweep capability.

**LIMITED QUANTITY
AVAILABLE**



FIBER COMMUNICATION

Model	Description	MSRP	Gov Price
68369A/NV	10MHz to 40GHz Synthesized Sweep/Signal Generator	\$47,000.00	\$19,176.00
68369A/NV-1YR	1 Year Return to Anritsu Warranty	\$1,556.00	\$1,556.00
S&H	Shipping & Handling	\$100.00	\$100.00

FIBER NETWORK INSTALLATION



Anritsu/NetTest
CMA5000a

**SAVE
\$309**

The CMA5000a Multi-Layer Network Test Platform has a full range of versatile modules and easy to use touch panel, supporting fast network rollout and maintenance at lower total cost. Modules support testing SONET/SDH, OTN, Gigabit Ethernet, DWDM, OTDR, ORL, PMD and CD.



**MULTI-LAYER
NETWORK TEST PLATFORM**

Model	Description	MSRP	Gov Price
5000A-150-DC	Multi-layer Tester	\$6,875.00	\$6,565.63

IP NETWORK ANALYZER EOS



Anritsu
MP1590B

**SAVE
\$2,705**

The only single-instrument solution for differential electrical 10G XFP SONET/SDH jitter testing, and the only tester for fully verifying next generation EoS technologies such as Differential Delay, LCAS, and VCAT. Supports PDH, DS_n, SDH/ SONET, and OTN testing up to 10.7G and Ethernet/IP testing up to 10 GbE.



Model	Description	MSRP	GSA Price
MP1590B	Network Performance Tester	\$14,474.00	\$13,822.68
Modules		MSRP	GSA Price
MU150101A	2.5/2.6G EoS	\$30,702.00	\$29,320.41
MU150100A	10/10.7G	\$35,526.00	\$33,927.34
MU150121B	10/10.7G Optic/Elec (TX)	\$8,772.00	\$8,377.26
MU150123B	10/10.7G Optic/Elec (RX)	\$35,088.00	\$33,509.04
MU150125A	10/10.7G Jitter	\$26,316.00	\$25,131.79
MU120112A	Gigabit Ethernet	\$5,582.00	\$5,330.81
MU120118B	10 Gigabit Ethernet	\$60,111.00	\$57,406.01
MU120121A	10/100/1000 M Ethernet	\$17,003.00	\$16,237.87

Government agencies save on all 70,000+ GSA models online at www.gsamart.com

See more products at www.gsamart.com

7-LAYER NETWORK PROTOCOL ANALYZER

GSA Fluke Networks OptiView Series III

Provides complete network vision in seconds by combining seven layer protocol analysis, active discovery, SNMP device analysis, RMON2 traffic analysis and physical layer testing into a mobile solution. Web enabled remote analysis allows up to seven users to access a single unit simultaneously. Smaller than a laptop and battery-powered for up to three hours makes OptiView the ideal tool for mobile diagnostics.



**SAVE
\$1,169**

IPv6 ENABLED*

Model	Description	MSRP	GSA Price
OPVS3-GIG	Series III Gigabit	\$19,995.00	\$18,983.57
OPVS3-GIG/PSVS	Series III GIG PSVS Suite	\$28,396.75	\$28,396.75
OPVS3-GIG/PSVS/S	Series III GIG SVS Suite w/ Options	\$40,595.00	\$39,377.15
OPVS3-GIG/PSVS/W	Series III GIG PSVS Suite w/ WLAN Option	\$33,445.00	\$32,441.65
OPVS3-GIG/RHD*	Series III GIG w/RHD, IPv6 Enabled	\$26,495.00	\$25,700.15
OPVS3-GIG/RHD/PSVS*	Series III GIG RHD PSVS Suite, IPv6 Enabled	\$34,995.00	\$33,945.15
OPVS3-GIG/S	Series III GIG w/ Options	\$29,795.00	\$28,901.15
OPVS3-GIG/W	Series III GIG w/ Wireless Option	\$23,295.00	\$22,596.15
OPVS3-WLESS	OPV-WNA3 + Interpretair + Analyzeair	\$10,495.00	\$9,964.07

SINGLEMODE METRO-OTDR

GSA Fluke Networks OF-500 Series

Integrates insertion loss and fiber length measurement, OTDR analysis and fiber connector endface imaging to provide a higher tier of fiber certification and diagnostics. Enables users of all experience levels to certify fiber to industry and customer specifications, troubleshoot short-haul connection-rich links and thoroughly document their results. Modular design supports both multimode and singlemode testing.



**SAVE
\$1,274**

**SUPPORTS
MULTIMODE AND
SINGLEMODE**

Model	Multimode	Singlemode	Power Meter	Light Source	Inspection Camera	Smart Remote	MSRP	GSA Price
OF-500-01	Yes	-	-	-	-	-	\$13,995.00	\$12,721.36
OF-500-02	Yes	-	Yes	-	-	-	\$14,995.00	\$13,630.36
OF-500-10	Yes	-	Yes	Yes	Yes	-	\$19,995.00	\$19,597.09
OF-500-15	Yes	-	Yes	Yes	Yes	Yes	\$24,990.00	\$23,740.50
OF-500-35	Yes	Yes	Yes	Yes	Yes	-	\$30,795.00	\$28,932.07
OF-500-03	-	Yes	-	-	-	-	\$12,760.00	\$12,377.20
OF-500-13	-	Yes	Yes	Yes	Yes	Yes	\$23,351.00	\$22,650.47
OF-500-45	Yes	Yes	Yes	Yes	Yes	Yes	\$39,126.00	\$37,952.22

GSA GSA contract products, (GS24F0066M, GS35F0311R, GS07F0198U, GS07F0437U). Small business credit applies. Free shipping FOB U.S. destinations.



NAVICPMart contract products, (N00104-01-D-X407), are pre-negotiated and comply with Competition in Contracting Act (CICA). Free shipping FOB U.S. destinations.

Call toll free 6AM–6PM (PST) 888-665-2765

WLAN NETWORK ANALYZER

GSA Fluke Networks EtherScope™ Series II Network Assistant

**SAVE
\$389**

Provides deeper network vision into 10/100/1000 Mbps twisted pair/optical fiber LANs and 802.11a/b/g wireless LANs for proactive faster problem resolution. Get a picture of your network through device discovery, including access points and mobile clients, network discovery, VLAN discovery—and document your findings with web-viewable reports. Powerful switch visibility assists with troubleshooting in switched environments. Measure and document IP performance across your network. All this in an easy-to-use, small, light weight and durable Linux® platform built for portability.



Model	Description	MSRP	GSA Price
ES2-LAN-SX/I	Etherscope S2 LAN SX Fiber ITO	\$9,995.00	\$9,695.15
ES2-LAN-SX/I-KIT	Etherscope S2 LAN SX Fiber ITO + Linkrunner Pro Reflector	\$9,995.00	\$9,695.15
ES2-PRO-SXLX-I/S	Etherscope S2 LAN WLAN SX/LX Fiber ITO EXT Kit	\$10,995.00	\$10,665.15
ES2-PRO-SX/I-AA	Etherscope S2 LAN WLAN SX Fiber ITO + Analyzeair	\$12,995.00	\$12,605.15

CAT 6 CABLE ANALYZER

GSA Fluke Networks DTX Cable Analyzer Series

**SAVE
\$3,598**

Offers Cat 6 testing with Level IV Accuracy, unmatched diagnostics, 900 MHz of bandwidth, 12-hour battery and 9-second Cat 6 Autotest. Three times faster than existing testers. Advanced time-saving diagnostics pinpoints fault and suggests corrective actions—rapid analysis can reduce certification cost by 33%. Resident fiber modules let allows DTX users to switch between copper and fiber with the push of a button. Optional snap-in DTX Compact OTDR Module turns your cable tester into an optical time domain reflectometer.



**NEW OTDR
MODULE
AVAILABLE**

Model	16 MMC Card	MM	MSM	GMFM	MSRP	GSA Price
DTX-1800	Yes	-	-	-	\$9,115.00	\$7,547.62
DTX-1800-M	Yes	Yes	-	-	\$12,950.00	\$10,198.57
DTX-1800-V	Yes	-	-	Yes	\$13,625.00	\$10,927.14
DTX-1200	-	-	-	-	\$8,268.00	\$6,820.40
DTX-1200-M	-	Yes	-	-	\$12,170.00	\$9,760.23
DTX-1200-MS	-	Yes	Yes	-	\$18,175.00	\$14,576.24
DTX-1200-V	-	-	-	Yes	\$12,765.00	\$10,237.43
DTX-OTDR-QMOD					\$10,395.00	\$10,083.15

MM: Multimode Module MSM: Multimode & Singlemode Modules GMFM: Gigabit Multimode Fiber Module

See all 70,000+ GSA models online at www.gsasmart.com

WIRELESS SOFTWARE

Fluke Networks AnalyzeAir™/InterpretAir™

AnalyzeAir™ AnalyzeAir software provides the ability to see the RF spectrum in a visible and intelligible format. Software lets you see, monitor, analyze, and manage all the RF sources and wireless devices that influence your Wi-Fi network's performance and security, even if those devices are unauthorized or transient.

InterpretAir™ provides wireless LAN installers and network professionals with the vision they need to plan, deploy, verify, and document their 802.11a/b/g WLAN networks. InterpretAir is a wireless site survey tool and much more; it provides visualization of RF health metrics, greatly simplifying WLAN environment analysis and enabling performance tuning.



Model	Description	MSRP	GSA Price
AnalyzeAir	Wi-Fi Spectrum Analyzer	\$3,995.00	\$3,875.15
IA-AA	Interpretair & Analyzeair	\$6,995.00	\$6,785.15

7-LAYER NETWORK PROTOCOL ANALYZER

Fluke Networks OptiView Series III

Provides complete network vision in seconds by combining seven layer protocol analysis, active discovery, SNMP device analysis, RMON2 traffic analysis and physical layer testing into a mobile solution. Web enabled remote analysis allows up to seven users to access a single unit simultaneously. Smaller than a laptop and battery-powered for up to three hours makes OptiView the ideal tool for mobile diagnostics.



Model	Description	Gov Price
OPVS3-GIG/AN	See www.gsamart.com	\$26,797.00
OPVS3-GIG/R/P/W/AN	See www.gsamart.com	\$36,350.00
OPVS3-GIG/RD/PV/AN	See www.gsamart.com	\$32,235.00
OPVS3-GIG/W/AN	See www.gsamart.com	\$30,910.00

CAT 6 CABLE ANALYZER

Fluke Networks DSP-4300/AN


67% OFF

Exceeds spec requirements for Cat 5, Cat 5e and Cat 6 with Level III Accuracy. Also includes Cat 6 Channel Adapter and a Channel/Traffic Adapter making it ready to test Cat 6 channel limits as well as automatically diagnose cabling faults, showing the exact location in feet or meters.

Includes: DSP-4300 Main and Remote (P/N 1627626), LinkWare™ Software (P/N 2114485), 16MB of internal memory, 16MB MultiMedia Card, PC Card Reader, DSP-LIA101S Permanent Link Adapters (P/N 1605494), PMO6 Cat 6 Personality Modules (P/N 2073688), Cat 6/5e Channel Adapter (1), Cat 6/5e Channel/Traffic Adapter (1), Talk Sets (2), AC Adapter/Chargers (2), Soft Carrying Case (P/N 670080), Instrument Straps (2), Calibration Module (P/N 1613711), RS-232 Serial Cable and RJ-45 to BNC Adapter Cable, LC1 line cords (x2) (P/N 284174), Quick Reference Card (P/N 2093712), CD-ROM User Manual (P/N 1627320), Manual, User, Printed (P/N 2430790), Manual, Technical, Printed (P/N 2429477).



Model	Description	MSRP	Gov Price
DSP-4300/AN	Cat 6	\$6,795.00	\$2,260.00

 GSA contract products, (GS24F0066M, GS35F0311R, GS07F0198U, GS07F0437U). Small business credit applies. Free shipping FOB U.S. destinations.

MULTI-SLOT RUGGED PORTABLE PC

Logic Instrument TetraSmart


SAVE \$770

Get moving with the field-ready TetraSmart, the perfect platform for mobile applications requiring up to 5 full-length add-in PCI or ISA cards.

There's no missed detail with its bright 15" XGA or WSXGA display screen and multiple storage options allow room for huge data and video files. Intel® Core™ 2 Duo CPU power with up to 5 easily accessible slots and I/O connections in a an welded stress-relieved aluminum attaché case, 20% smaller than lunchbox styles.



Model	Slots	MSRP	GSA Price
TS-5SDA-840	5	\$7,695.00	\$6,924.60
TS-6SDA-840	2	\$7,695.00	\$6,924.60

 NAVICPMart contract products, (N00104-01-D-X407), are pre-negotiated and comply with Competition in Contracting Act (CICA). Free shipping FOB U.S. destinations.

ADAPTABLE MODULAR STORAGE

GSA Hitachi Data Systems Universal Storage Platform VM

The Hitachi USP VM blends enterprise-class functionality with a smaller footprint to meet the business needs of entry level enterprises and fast-growing midsize organizations, while supporting distributed or departmental applications in large enterprises for both open systems and mainframe environments. It supports massive infrastructure consolidation of storage services on a single platform. It also enables virtualization of external storage from Hitachi and other vendors into one pool, protecting and extending the life of existing storage assets.

**DYNAMIC PROVISIONING FOR
NONDISRUPTIVE VOLUME EXPANSION**



Expert Services

- Assess, plan & design storage solutions
- Factory validated configurations
- HDS certified technicians
- Integration, installation & service

**Call For
Solutions**

Series	Max Internal Bandwidth	Max IOPS	Max Cache	Fibre Channel Back-end Loops	Host Connections
USP VM	13.3 GB/Sec	1.2 Million	64 GB	4 Gbit/Sec	48

NETWORK TESTING APPLIANCE

GSA Breaking Point Systems BPS-1000, BPS-10K

**30%
OFF**

The **BPS-1000** at its core is an advanced network emulation engine that has the ability to generate layer 2 through layer 7 traffic at multi-gigabit speeds and millions of application data streams.

The **BPS-10K** offers the extreme in network test solutions, with the ability to generate 40 gigabit of stateless traffic and 10 gigabit of application traffic. The new BPS-10K provides complete network test capabilities for layers 2-7 and includes a security test suite and a service that provides timely updates on the latest threats, exploits and evasion techniques. Both units come with over 20 application protocols and over 3,200 security Strikes included.



Model	Description	MSRP	GSA Price
100-00001-01	BPS-1000 2 Gigabit	\$185,000.00	\$129,500.00
100-00002-01	BPS-10K 10 Gigabit	\$250,000.00	\$175,000.00

MULTIMODE COMPOSITE FERRULE CONNECTORS

GSA UniCam SC and ST Compatible Ferrule Connectors

With proven UniCam Connector technology, fiber terminations are easy. The Corning Cable Systems patented, highprecision mechanical splice technology enables fiber optic networks to be installed quickly and cost effectively.



Model	Description	MSRP	GSA Price
95-000-40	SC 62.5/125, 0.9/3.0MM Comp Prepolished	\$10.87	\$8.83
95-000-41	SC 62.5/125, 0.9/3.0MM Ceramic Prepolished	\$14.24	\$11.56
95-000-50	ST 62.5/125, 0.9/3.0MM Comp Prepolished	\$10.87	\$8.83
95-000-51	ST 62.5/125, 0.9/3.0MM Ceramic Prepolished	\$14.24	\$11.56
95-000-61	FC MM 62.5/125UM, Ceramic Prepolished	\$14.24	\$11.56
95-000-99	LC 62.5/125, CTS Compatible Ceramic Prepolished	\$14.24	\$11.56

SINGLEMODE METRO-OTDR

GSA Anritsu
MT9083A

**SAVE
\$850**



The ACCESS Master MT9083A is the first all-in-one tool that does not compromise performance. It features extremely high resolution to see those closely spaced splices and connectors, while still being able to certify 100+ km spans- quickly and accurately. In addition to verifying the integrity of the fiber plant, network performance can also be verified ensuring the customer experience is at its highest level.

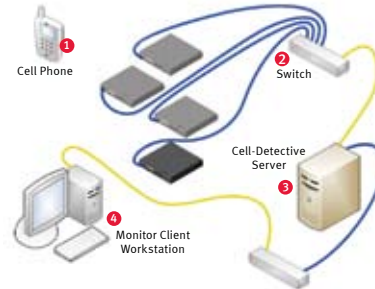
Model	Description	MSRP	GSA Price
MT9083A-050	1310nm	\$6,700.00	\$6,398.50
MT9083A-051	1550nm	\$6,700.00	\$6,398.50
MT9083A-053	1310/1550nm SM	\$7,600.00	\$7,258.00
MT9083A-056	1310/1490/1550nm SM	\$12,500.00	\$11,937.50
MT9083A-057	1310/1550/1625nm SM	\$13,000.00	\$12,415.00
MT9083A-058	1310/1490/1550/1625nm SM	\$16,900.00	\$16,139.50
MT9083A-059	1310/1383/1550/1625nm SM	\$18,900.00	\$18,049.50
MT9083A-063	1310/1550nm SM and 850/1300nm MM	\$11,900.00	\$11,364.50
MT9083A-064	850/1300nm MM	\$8,600.00	\$8,213.00
MT9083A-065	850nm MM	\$7,500.00	\$7,162.50

CELL PHONE DETECTION

GSA EDO/EVI
Cell-Detective

**SAVE
\$73**

Cell-Detective detects and locates cell phones located within or near a facility. Hardware capable of detecting ESMR, Cellular, PCS, CMRS and ISM bands.



1. A cell phone is used.
2. Sensors detect the cell phone activity and send information over to the server.
3. Server analyzes the information and determines location.
4. Security personal using the Monitor Client review information and dispatch security to that location.

Model	Description	MSRP	GSA Price
CPC-WL00102-01	Cell Phone Detector	\$918.00	\$844.56
CPC-WL00101-01	Wall Bracket	\$25.02	\$23.02
CPC-WL00100-01	120 VAC Power Supply	\$16.68	\$15.34
CPC-WL00100-01	Ethernet Power Supply	\$172.13	\$158.36
CPC-WL00114-01	8"x10"x4" Enclosure	\$78.05	\$71.81

WALL-MOUNTABLE CONNECTOR HOUSINGS

GSA Corning
WCH Series

Corning Cable Systems Wall-Mountable Connector Housings provide interconnect or cross-connect capabilities between the outside plant, riser or distribution cables and the optoelectronics. The units can be wall-mounted in main cross-connects (MCs) or telecommunication rooms (TRs), and are available in different versions: two panels, four panels, six panels and 12 panels.



Model	Description	MSRP	GSA Price
WCH-02P	9.25" x 13.25" x 3.25" Up To 2 CCH Panels	\$67.19	\$54.56
WCH-04P	13.5" x 16.062" x 4.062" Up To 4 CCH Panels	\$129.34	\$105.03
WCH-12P	13.5" x 22.5" x 5.125" Up To 12 CCH Panels	\$293.95	\$238.70

2-FIBER ZIPCORD PLENUM CABLES

GSA Corning
Zipcord Cable

Corning Cable Systems Zipcord Cable utilizes two 900 µm TBII® Buffered Fibers surrounded by aramid yarn strength members with a flexible flame-retardant jacket. This cable meets the application requirements of the National Electrical Code® (NEC® Article 770) and is listed as Type OFNP and CSA FT-6. Zipcord cable is ideal for interconnect applications within plenum areas.



Model	Description	MSRP	GSA Price
002K58-31141-24	2-F 62.5/125 3.75/1.5DB/KM 160/500MHZ	\$0.35	\$0.29
004K88-31130-29	4-F 62.5/125 3.5/1.0DB/KM 200/500MHZ	\$0.66	\$0.53
006K88-31130-29	6-F 62.5/125 3.5/1.0DB/KM 200/500MHZ	\$0.77	\$0.62
008K88-31130-29	8-F 62.5/125 3.5/1.0DB/KM 200/500MHZ	\$1.25	\$1.00

GSA GSA contract products, (GS24F0066M, GS35F0311R, GS07F0198U, GS07F0437U). Small business credit applies. Free shipping FOB U.S. destinations.

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SYNCHRONIZATION TIMING SYSTEM

GSA CXR Larus StarClock TiemPo 6400™

**SAVE
\$299**

The TiemPo 6400 is a totally integrated and modular system for seamless use in T1, E1, 2.048MHz, CC, 5 and 10MHz, and Next Generation network packet synchronization applications, and provides flexible and cost effective solutions to Stratum 1/PRC, Enhanced Stratum 2 (2E), Stratum 2/TNC, and Stratum 3E/LNC digital and packet transmission timing and synchronization requirements. The TiemPo is available in both ANSI and ETSI versions.

**COMPARE TO
SYMMETRICOM**



Model	Description	MSRP	GSA Price
6400A-00	Base Shelf, Ansi Version	\$3,395.00	\$3,055.50
6400-A1	One RB OSC, STR 2E	\$3,499.00	\$3,219.08
6400-A2	Two RB OSC, STR 2E	\$6,998.00	\$6,438.16
6400-C1	One OCXO OSC, STR 3E	\$1,299.00	\$1,195.08
6400-C2	TWO OCXO OSC, STR 3E	\$2,598.00	\$2,390.16
6400-SM	SMU	\$989.00	\$909.88

NETWORK CROSS CONNECT & MULTIPLEXER

GSA CXR Larus QX3440

**SAVE
\$130**

The CXR-QX 3440 is a wideband access DCS-MUX that can combine various digital access interfaces into E1 or T1 lines for convenient transport and switching. Provides access for a variety of interfaces; Quad E1/T1, 10/100baseT Router, MDLS, U type, RS232, V.35, E&M, FXS, and FXO. Supports local control and diagnostics by using an external 2-line by 40-character LCD display and keypads, or by using a VT-100 terminal connected to the console port. The CXR-QX 3440 also supports Ethernet, SLIP, Telnet, and SNMP.

COMPARE TO COASTCOM



Model	Description	MSRP	GSA Price
QX3440	Main Shelf	\$1,185.00	\$1,078.35
QX3440-CPU	CPU Card	\$1,455.00	\$1,324.05
QX-3440-4T1-xx	Four Channel T1 Interface	\$1095.00	\$996.45
QX3440-12FXO	12 FXO Card	\$1,185.00	\$1,078.35
QX3440-12FXS	12 FXS Card	\$1,185.00	\$1,078.35
QX3440-8E&M	8 E&M Interface	\$1,295.00	\$1,178.45

NTP/PTP IEEE-1588 V2 TIME SERVERS AND CLIENTS

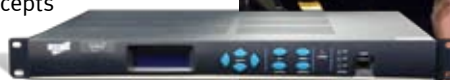
GSA CXR Larus StarSync™ 6850 & StarSync™ 6800

**SAVE
\$1,680**

StarSync™ 6850 is a 19-inch rack-mountable Primary Reference Source (PRS) and Primary Reference Clock (PRC) that provides superior timestamping accuracy and redundant configurability. It accepts a GPS signal from a variety of manufacturer's antennas and provides antenna power via an attached RF cable.

StarSync™ Edge 6800 is a 19-inch rack-mountable or desktop NTP/PTP IEEE-1588 V2 slave clock or local edge BITS that delivers multiple synchronous outputs in a very cost efficient and flexible platform. Four output; (2) T1 or E1, software selectable, (1) 1 Pulse per Second, 1 Pulse per Minute, or 2 Pulses per Second, also software selectable, and (1) 1 MHz, 5 MHz or 10 MHz sine wave, also software selectable.

**COMPARE TO
SYMMETRICOM**



Model	Description	MSRP	GSA Price
6800-51	Starsync Edge NTP/PTP Client, (TCXO), No GPS, NTP Enabled	\$1,980.00	\$1,801.80
6850-51	Starsync PRS/NTP Time Server, Str3e Bridging, (OCXO), NTP Enabled	\$13,200.00	\$12,012.00
6800-61	StarSync Edge NTP/PTP Client (OCXO- Stratum 3E), with GPS, NTP Enabled	\$2,640.00	\$2,402.40
6850-61	StarSync PRS/PRC Time Server, Str 2 (Rb) Bridging, AC Pwr, RJ-48C Conns, NTP	\$17,875.00	\$16,266.25
007-02319-000	GPS Antenna Kit; VIC-100, 50' RG-58, Mounting Bracket & Hardware	\$595.00	\$547.40

See all 70,000+ GSA models online at www.gsmart.com

DIGITAL OSCILLOSCOPE



Agilent InfiniiVision 7000 Series

**SAVE
\$1,999**

Largest screen (12.1") in its class so you see analog, digital and serial signals better—in one instrument. Oscilloscopes are visual tools and large, high-resolution screens make the product better. Bigger displays have become increasingly important as general purpose scopes need more space to display digital and serial signals in addition to traditional scope channels. The increased display size helps you easily view up to 20 channels simultaneously with serial protocol. At 12.1 inches the display is nearly 40% bigger than any competitive model.

Fastest uncompromised update rate shows you critical signal detail and infrequent events that other scopes miss. See a display more representative of the actual signals under test than with any other scope. The InfiniiVision 7000 Series shows jitter, infrequent events, and subtle signal detail that other scopes miss. Turn knobs and the instrument responds instantly and effortlessly. Need to also view digital channels? The instrument stays responsive. Decoding serial packets? Offering the industry's only hardware accelerated serial bus decode, Agilent's InfiniiVision series delivers serial debug without compromising analog measurements.

LXI class C compliant.



Model	Bandwidth	Sample Rate	Memory	Scope Ch.	Digital Ch.	MSRP	GSA Price
DSO7032A	350 MHz	2 GSa/s	8 Mpts	2	-	\$7,298.00	\$6,502.52
DSO7034A	350 MHz	2 GSa/s	8 Mpts	4	-	\$9,301.00	\$8,287.19
DSO7052A	500 MHz	4 GSa/s	8 Mpts	2	-	\$9,551.00	\$8,509.94
DSO7054A	500 MHz	4 GSa/s	8 Mpts	4	-	\$11,857.00	\$10,564.59
DSO7104A	1 GHz	4 GSa/s	8 Mpts	4	-	\$14,550.00	\$12,964.05
MSO7032A	350 MHz	2 GSa/s	8 Mpts	2	16	\$9,198.00	\$8,195.42
MSO7034A	350 MHz	2 GSa/s	8 Mpts	4	16	\$11,545.00	\$10,286.60
MSO7052A	500 MHz	4 GSa/s	8 Mpts	2	16	\$13,606.00	\$12,122.95
MSO7054A	500 MHz	4 GSa/s	8 Mpts	4	16	\$14,906.00	\$13,281.25
MSO7104A	1 GHz	4 GSa/s	8 Mpts	4	16	\$18,348.00	\$16,348.07



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DIGITAL OSCILLOSCOPE

GSA

Agilent
Infiniium 8000 Series

SAVE
\$2,179

The Agilent 8000 series is a Windows-based lab oscilloscope that offers superior analog and mixed signal analysis. Analog signal analysis options include vector and jitter measurement. Mixed signal analysis options include cross-domain measurement and serial decode for I2C, SPI and CAN. Fast responsive deep memory and advanced application analysis.

**WINDOWS-BASED
SCOPE**



Oscilloscopes
up to
15% OFF
MSRP

Model	Bandwidth	Channels	Sample Rate	Std Memory	Max Memory	MSRP	GSA Price
DSO8064A	600 MHz	4	4 GSa/s	8 Mpts	128 Mpts	\$14,490.00	\$12,910.60
MSO8064A	600 MHz	4 + 16	4 GSa/s	8 Mpts	128 Mpts	\$17,557.00	\$15,643.28
DSO8104A	1 GHz	4	4 GSa/s	8 Mpts	128 Mpts	\$17,745.00	\$15,810.80
MSO8104A	1 GHz	4 + 16	4 GSa/s	8 Mpts	128 Mpts	\$20,689.00	\$18,433.90

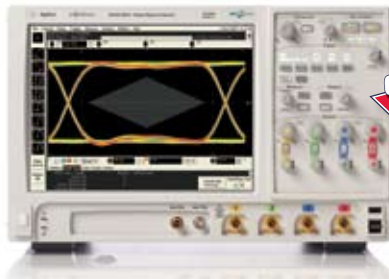
DIGITAL SIGNAL OSCILLOSCOPE

GSA

Agilent
Infiniium 90000A Series

SAVE
\$11,279

The all-new Infiniium DSO90000A Series deliver superior signal integrity, memory depth, and better insight. These high-performance scopes offer a low noise floor of 435 μ Vrms at 5 mV per division, are capable of acquiring up to one billion samples (1 Gpts), allowing capture of 25 ms record at 40 GSa/s at up to 13 GHz, and glitch detection as low as 125 ps. The DSO90000A series is ideal for the analysis and debugging of next-generation, high-speed digital and RF designs.



Oscilloscopes
up to
15% OFF
MSRP

Model	Bandwidth	GSa/s On 4 ch	Std Memory	Noise Floor At 100 mV/div	MSRP	GSA Price
DSO90254A	2.5 GHz	20	10 Mpts on 4 ch	1.27 mVrms	\$26,946.00	\$24,008.89
DSO90404A	4 GHz	20	10 Mpts on 4 ch	1.56 mVrms	\$52,358.00	\$46,650.98
DSO90604A	6 GHz	20	10 Mpts on 4 ch	1.92 mVrms	\$64,160.00	\$57,166.57
DSO90804A	8 GHz	40	10 Mpts on 4 ch	2.22 mVrms	\$79,325.00	\$70,678.58
DSO91304A	13 GHz	40	10 Mpts on 4 ch	3.37 mVrms	\$102,819.00	\$91,611.73

Federal contractors and government agencies are eligible for savings.

See more products at www.gsamart.com

PORTABLE OSCILLOSCOPE

GSA Agilent InfiniiVision 6000 Series

Meets demanding mixed analog and digital design challenges. Integrated MegaZoom III technology gives its industry-leading performance with responsive deep memory, high definition color display, and fast waveform update rates. 8 MPts memory standard 89601A Vector Signal Analysis software provides flexible signal and modulation analysis for communications and RADAR. Includes battery for portable operation.



**SAVE
\$1,999**

Oscilloscopes
up to
**15% OFF
MSRP**

Model	MHz	Channels	GS/s	MSRP	GSA Price
DSO6052A	500	2 Scope	4	\$9,551.00	\$8,509.95
DSO6054A	500	4 Scope	4	\$11,857.00	\$10,564.59
DSO6102A	1000	2 Scope	4	\$12,504.00	\$11,141.05
DSO6104A	1000	4 Scope	4	\$14,550.00	\$12,964.05
MSO6052A	500	2 Scope	4	\$13,606.00	\$12,122.96
MSO6054A	500	4 Scope	4	\$14,906.00	\$13,281.26
MSO6102A	1000	2 Scope	4	\$16,218.00	\$14,450.24
MSO6104A	1000	4 Scope	4	\$18,348.00	\$16,348.08

LOW-PROFILE OSCILLOSCOPE

GSA Agilent InfiniiVision 6000L Series

The 6000L Series oscilloscopes provide up to 1-GHz bandwidth in a space-saving 1U-high by 19-inch wide package. They have side and rear air vents so other instruments can be mounted directly above or below them. Rack mount brackets and rack rails are standard with every unit. Easy system integration and configuration to simplify system development, the 6000L Series come standard with an IVI-COM (Interchangeable Virtual Instruments) driver, and they support easy-to-use SCPI commands.

LXI class C compliant.

**6000 FAMILY
PERFORMANCE
IN 1U PACKAGE**



**SAVE
\$1,514**

Oscilloscopes
up to
**15% OFF
MSRP**

Model	MHz	GSa/s	Channels	Size	MSRP	GSA Price
DSO6014L	100	2 GSa/s	4	1U x 19" Wide	\$5,433.00	\$4,840.80
DSO6054L	500	4 GSa/s	4	1U x 19" Wide	\$11,548.00	\$10,289.27
DSO6104L	1	4 GSa/s	4	1U x 19" Wide	\$13,897.00	\$12,382.23

GSA contract products, (GS24F0066M, GS35F0311R, GS07F0198U, GS07F0437U). Small business credit applies. Free shipping FOB U.S. destinations.



NAVICPMart contract products, (N00104-01-D-X407), are pre-negotiated and comply with Competition in Contracting Act (CICA). Free shipping FOB U.S. destinations.

Call toll free 6AM–6PM (PST) 888-665-2765

PORTABLE OSCILLOSCOPE

GSA Agilent InfiniiVision 5000 Series

**SAVE
\$1,142**

Agilent's 5000 Series scopes offer 100 times more memory and up to 100 times faster update rates than the most comparable scope on the market. Key features include: Up to 100,000 waveforms per second real-time update rate, high-definition XGA (1024 x 768) display with 256 levels of intensity grading, up to 12 bits of vertical resolution, and serial triggering and hardware-accelerated decode for I2C, SPI, CAN, LIN and RS-232/UART.



**Oscilloscopes
up to
15% OFF
MSRP**

Model	MHz	Channels	GS/s	MSRP	GSA Price
DSO5012A	100	2	2	\$4,276.00	\$3,809.91
DSO5014A	100	4	2	\$5,023.00	\$4,475.49
DSO5032A	300	2	2	\$5,998.00	\$5,344.22
DSO5034A	300	4	2	\$7,355.00	\$6,553.30
DSO5052A	500	2	3	\$8,825.00	\$7,863.08
DSO5054A	500	4	4	\$10,480.00	\$9,337.69

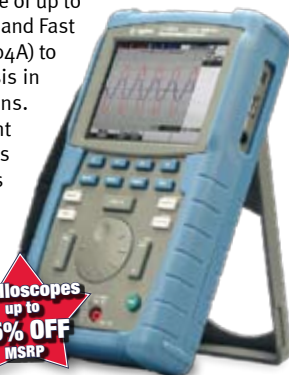
HANDHELD OSCILLOSCOPE

GSA Agilent U1600 Series

**10%
OFF**

The U1600A series handheld digital oscilloscope has a 4.5-inch LCD color display that distinguishes waveforms between two channels. Real time sampling rate of up to 200 MSa/s. Dual Waveform Math and Fast Fourier Transform functions (U1604A) to perform quick waveform analysis in both time and frequency domains. The built-in 6000 resolution count true RMS digital multimeter comes with auto-range feature that gives users the flexibility to perform quick and accurate meter measurement functions inclusive of voltage, resistance and auxiliary - measurements. Comes standard with data logging functionality.

**Oscilloscopes
up to
15% OFF
MSRP**



Model	Description	MSRP	Gov Price
U1602A	20 MHz, 2 Ch, 200 MSa/s	\$1,355.00	\$1,216.11
U1604A	40 MHz, 2 Ch, 200 MSa/s	\$1,692.00	\$1,518.57

HANDHELD DIGITAL MULTIMETER

GSA Agilent U1250 Series

**10%
OFF**

The Agilent U1250A Series handheld digital multimeters deliver more powerful features and performance for your applications needs. 4.5 digit resolution with a 50,000 count full scale in dual display with high contrast blue backlighting. It takes accurate reading in true-RMS and basic DC voltage accuracy of up to 0.025%. These features give you the flexibility to perform quick validation measurements or perform tolerance checks and marginal failure troubleshooting.



Model	Description	MSRP	Gov Price
U1251A	AC, 50 MΩ, 0.5 Hz–200 kHz	\$399.00	\$358.10
U1252A	AC/DC, 500 MΩ, 0.5 Hz–500 kHz	\$429.00	\$385.03

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MODULAR LOGIC ANALYSIS SYSTEMS

GSA Agilent 16900 Series

The Agilent 16900 Series modular logic analysis systems provide the highest performance and best long-term value. You get the flexibility to configure a system for your specific needs. Purchase what you need now then upgrade as your needs evolve. Select from a wide range of real-time analysis tools for buses, memories, protocols, Xilinx and Altera FPGAs, and processors to speed up debug of your specific application.

**SAVE
\$2,632**

**NOW ON
GSA**



Model	Module Slots	Display Size	MSRP	GSA Price
16901A	2-slot Logic Analyzer Mainframe	15" Color Touch Display	\$14,637.00	\$13,041.57
16902B	6-slot Logic Analyzer Mainframe	15" Color Touch Display	\$17,850.00	\$15,904.35
Model	Timing/State Logic Analyzer Modules	Memory Depth	MSRP	GSA Price
16910A	102-ch, 4 GHz Timing, 250 MHz State (1 M, 4 M, 16 M, 32 M Options)	256 K Standard	\$13,201.00	\$11,762.09
16911A	68-ch, 4 GHz Timing, 250 MHz State (1 M, 4 M, 16 M, 32 M Options)	256 K Standard	\$9,954.00	\$8,869.01
16950B	68-ch, 4 GHz Timing, 667 MHz State (4M, 16 M, 32 M, 64 M Options)	1 M Standard	\$24,622.00	\$21,938.02
16951B	68-ch, 4 GHz Timing, 667 MHz State	256 M	\$67,957.00	\$60,549.69
16962A	68-ch, 2 / 4 / 8 GHz Timing, 2 GHz State	100 M	\$38,135.00	\$33,978.28

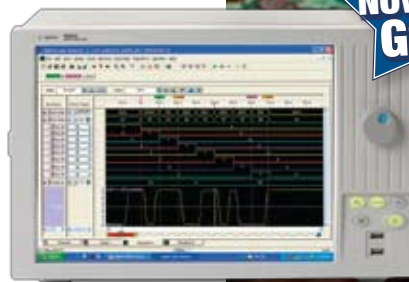
PORTABLE LOGIC ANALYZER

GSA Agilent 16800 Series

Agilent 16800 Series portable logic analyzers deliver an exclusive combination of high-performance logic analysis, pattern generation, application software and innovative probing for system-level debugging of digital designs. State speed (250 MHz or 450 MHz) and memory depth (1M, 4 M, 16 M, or 32 M) are upgradeable at time of purchase or later as your needs evolve. Select from a wide range of real-time analysis tools for buses, memories, protocols, Xilinx and Altera FPGAs, and processors to speed up debug of your specific application.

**SAVE
\$1,591**

**NOW ON
GSA**



Model	Logic Analyzer Channels	Pattern Generator Channels	MSRP	GSA Price
16801A	34	-	\$9,997.00	\$8,907.32
16802A	68	-	\$12,884.00	\$11,479.64
16803A	102	-	\$15,328.00	\$13,657.25
16804A	136	-	\$17,881.00	\$15,931.97
16806A	204	-	\$27,937.00	\$24,891.87
16821A	34	48	\$19,902.00	\$17,732.68
16822A	68	48	\$22,171.00	\$19,754.36
16823A	102	48	\$24,546.00	\$21,870.49

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DIGITAL MULTIMETER

GSA Agilent 34400A Series

SAVE
\$245

The 34410A and 34411A offer improved accuracy, expanded measurement capability, dramatically improved measurement speed and throughput, and modern computer interfaces including LAN and USB.

The new L4411A, high-performance system multimeter, 6-1/2 digits, 1U high, DC & AC voltage, DC & AC current, 2 & 4 wire resistance, frequency & period, continuity, diode test, capacitance, temperature; 50,000 rdgs/s; GPIB, LAN, USB, and IntuiLink SW.

LXI class C compliant.



Model	Description	Digit	Connectivity	Speed	MSRP	GSA Price
34405A	Value Performance	5.5	USB	70 rdgs/s	\$749.00	\$667.36
34401A	Standard Performance	6.5	GPIB & RS-232	1,000 rdgs/s	\$1,070.00	\$953.37
34410A	High Performance	6.5	GPIB, USB, LAN	10,000 rdgs/s	\$1,295.00	\$1,153.85
34411A	Enhanced Performance	6.5	GPIB, USB, LAN	50,000 rdgs/s	\$2,003.00	\$1,784.68
L4411A	High Performance	6.5	GPIB, USB, LAN	50,000 rdgs/s	\$2,248.00	\$2,002.96

FUNCTION/ARBITRARY WAVEFORM GENERATORS

GSA Agilent 33220A Series

SAVE
\$498

The Agilent Technologies 33220A series function/arbitrary waveform generators use direct digital synthesis (DDS) techniques to create a stable, accurate output signal for clean, low distortion waveforms. The 33220A series offers up to 16 standard waveforms and modulation types: sine, square, triangle, ramp, pulse, noise, sin(x)/x, exponential rise and fall, cardiac, DC volts, arbitrary, AM, FM, PM (33220A only), FSK and PWM (33220A only).

LXI class C compliant.



Model	Max Freq	K points	MSa/s	MSRP	GSA Price
33210A	10 MHz	8	50	\$1,195.00	\$1,064.75
33220A	20 MHz	64	50	\$1,860.00	\$1,657.26
33250A	80 MHz	64	200	\$4,571.00	\$4,072.76

FREQUENCY COUNTERS 1.5 GHz–12.4 GHz

GSA Agilent 53100A Series

SAVE
\$365

The Agilent 53100A series of high-performance counters give you fast, precise frequency measurements at an affordable price. Featuring an intuitive user interface and one-button access to frequently used functions, allows you to make accurate measurements quickly and easily. Real-time digital signal processing technology is used to analyze data while simultaneously taking new readings, speeding measurement throughput. Offers built-in statistics and math functions so you can scale measurements and simultaneously measure and track average, min/max and standard deviation.



Model	Description	MSRP	GSA Price
53131A	Universal, 10 Digits/s, 500 ps	\$2,164.00	\$1,928.12
53132A	Universal, 12 Digits/s, 150 ps	\$3,357.00	\$2,991.09
53181A	RF, 10 Digits/s	\$1,885.00	\$1,679.54

Optional max freq: 1.5 GHz (53181A only), 3 GHz, 5 GHz or 12.4 GHz

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HANDHELD DIGITAL MULTIMETER



Agilent U1241A/N

The Agilent U1241A/N handheld digital multimeter enables you to check more with wider measurement ranges. It features true RMS readings on the 10,000-count display. The adjustable backlighting allows you to complete your jobs even in subdued lighting conditions, at the same time prolonging the battery life. Your maintenance tasks are greatly simplified due to the built-in switch counter, harmonic ratio, dual and differential temperature capabilities, with just a press of the button. The meter has a high safety rating with CAT III 1000 V protection and are certified to CE, CSA and UL standards. On top of that, the U1241A/N comes with a certificate of calibration and test report—at no extra cost.

43% OFF



**NEW NAVY STANDARD
FLUKE 87V REPLACEMENT**

**NOW ON
CONTRACT**

Model	Description	MSRP	GOV Price
U1241A/N	10,000 Count Display, 0.09% Basic DCV Accuracy True RMS, 3 Year Warranty	\$200.00	\$114.00

HANDHELD OSCILLOSCOPE



AEMC Instruments OX 7104-C

Ease-of-use of the instrument is facilitated through 33 specialized keys for direct access to commonly used functions. Ideal for field use, utilizes new system of plug-and-play accessories, individual isolation of each of the measurement channels, a range of remote management capabilities based on an Ethernet link with web server, includes a four channel TRMS multimeter. Large 320 x 240 full color LCD touch screen. Using the convenient stylus, the various "Windows-like" menus can be opened or pulled down and executed. The stylus can also be used for direct action on graphic elements such as cursors, triggers, zooming, etc.



4 CHANNEL HANDHELD

Model	Description	MSRP	GSA Price
2124-54	4x100 MHz, Color	\$5,995.00	\$5,695.25
2124-63	4x100 MHz, Color—Power Kit	\$7,995.00	\$7,595.25

MIXED SIGNAL OSCILLOSCOPE



Tektronix MSO4000 Series

**SAVE
\$1,253**

Visualize analog and digital signals on one instrument. The MSO4000 Series is a powerful oscilloscope with logic analyzer functionality.

Its familiar oscilloscope operation, large display and innovative user-friendly features have been designed to make your work easier. Add to this industry-leading specifications and you have the ultimate all-in-one debug tool for embedded design.



**FREE
7-DAY
TRIAL**

Model	Description	MSRP	GSA Price
MSO4034	350 MHz, 4+16 Ch, 2.5 GS/S	\$11,300.00	\$10,509.00
MSO4054	500 MHz, 4+16 Ch, 2.5 GS/S	\$14,400.00	\$13,392.00
MSO4104	1 GHz, 4+16 Ch, 5 GS/S	\$17,900.00	\$16,647.00



GSA contract products, (GS24F0066M, GS35F0311R, GS07F0198U, GS07F0437U). Small business credit applies. Free shipping FOB U.S. destinations.



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DIGITAL OSCILLOSCOPE

GSA

LeCroy WavePro 7000A Series

**SAVE
\$5,797**

The WavePro 7000A Series oscilloscope offers the sophisticated analysis capability of a top line oscilloscope with the all-round utility of a general purpose instrument. In 1 GHz to 3 GHz bandwidth applications, the WavePro delivers fast, accurate measurements associated more often with high-end lab oscilloscopes. Common Jitter and Timing measurements for clock and timing analysis enhance its capabilities. Wrap this performance in a very attractive price, and the LeCroy WavePro oscilloscope is the ideal solution for your test needs.



Model	Max Frequency	Channels	Sample Rate	MSRP	GSA Price
WavePro7100A	1 GHz	4	10 GS/s; 10 Mpts/Ch	\$23,920.00	\$20,332.00
WavePro7200A	2 GHz	4	10 GS/s; 10 Mpts/Ch	\$29,900.00	\$24,817.00
WavePro7300A	3 GHz	4	10 GS/s; 10 Mpts/Ch	\$34,100.00	\$28,303.00

DIGITAL OSCILLOSCOPE

GSA

Yokogawa DL7400

**SAVE
\$1,147**

Can simultaneously measure up to 8 analog signals while capturing 16 logic signals without needing to synchronize two separate oscilloscopes. The SignalExplorer oscilloscopes are a single unit solution for measurements that once required two or more units.



Model	Frequency	Memory/Ch	MSRP	GSA Price
DL7440	500 MHz	4 MW	\$13,695.00	\$13,147.20
DL7440L	500 MHz	16 MW	\$18,695.00	\$17,947.20
DL7480	500 MHz	4 MW	\$22,695.00	\$21,787.20
DL7480L	500 MHz	16 MW	\$28,695.00	\$27,547.20

Federal contractors and government agencies are eligible for savings.

SOURCEMETER® INSTRUMENTS

GSA Keithley
Series 2400, Series 2600A

Series 2400 SourceMeter® family is designed specifically for test applications that demand tightly coupled sourcing and measurement. All models provide precision voltage and current sourcing as well as measurement capabilities. Each SourceMeter instrument is both a highly stable DC power source and a true instrument-grade 5½-digit multimeter.

Series 2600A System SourceMeter instruments offer electronic component and semiconductor device manufacturers a scalable, high throughput, highly cost-effective solution for precision DC, pulse, and low frequency AC source-measure testing. Building on the tightly integrated source-measure technology originally developed for Keithley's popular Series 2400 SourceMeter line, Series 2600 instruments provide from two to four times the test speed of competitive solutions in I-V functional test applications. They also offer higher source-measure channel density and a significantly lower cost of ownership than competing products. The analog-to-digital converters provide simultaneous I and V measurements in less than 100µs (10,000 rdgs/s) and source-measure sweep speeds of less than 200µs per point (5,500 points/s). This high speed source-measure capability, plus advanced automation features and time-saving software tools make Series 2600 SourceMeter instruments an ideal solution for I-V testing of a wide range of devices.



Model	Description	MSRP	GSA Price
SourceMeter w/Measurements			
2400	200V/1A/20W (General-Purpose)	\$4,099.00	\$3,894.05
2410	1100V/1A/20W (High-Voltage)	\$5,799.00	\$5,509.05
2420	60V/3A/60W (High-Current)	\$5,799.00	\$5,509.05
2425	100V/3A/100W	\$6,899.00	\$6,554.05
2430	100V/10A /1kW (Pulse Mode)	\$9,999.00	\$9,499.05
2440	40V/5A/50W	\$6,599.00	\$6,269.05
Voltage/Current SourceMeters (also available in 2 channel)			
2601A	10V/3A/40W (General-Purpose)	\$5,995.00	\$5,695.25
2602A	Dual-Channel	\$8,795.00	\$8,355.25
2611A	200V/10A/30W (Pulse Mode)	\$5,995.00	\$5,695.25
Source-Measure Units			
237	1100V/100mA/11W (High-Voltage)	\$10,072.00	\$9,568.40
Multi-Channel I-V Test (Requires additional Configuration)			
4200-SCS-F	Semiconductor Characterization System	\$32,742.00	\$31,104.90

GSA GSA contract products, (GS24F0066M, GS35F0311R, GS07F0198U, GS07F0437U). Small business credit applies. Free shipping FOB U.S. destinations.

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RF VECTOR SIGNAL GENERATOR/ANALYZER

GSA Keithley
2820, 2920

The **Model 2820's** DSP-based software-defined radio (SDR) architecture and 40 MHz bandwidth ensure it has the capability to measure today's signals and also the flexibility to handle tomorrow's. Today's mobile phones are designed to connect to more types of devices than ever before, so they must integrate with a growing number of wireless standards. As new wireless standards emerge, the Model 2820 is engineered for easy upgrades, which extend its useful life and provide an ongoing return on investment far longer than traditional instruments.

The **Model 2920** simplifies testing mobile phones and other wireless devices economically by generating signals compatible with an array of RF communications standards. Today's mobile phones are designed to connect to more types of devices than ever before, so they must integrate with a growing number of wireless standards.



Model	Description	MSRP	GSA Price
2820-RP-BT-004	RF Vector Sig Analyzer, Rear, BT, 400MHz–4GHz	\$22,500.00	\$22,261.50
2920-FP-BT-004	RF Vector Sig Generator, Front, BT, 10MHz–4GHz	\$17,500.00	\$17,314.50

POWER ANALYZER

Fluke
43B/AN

34% OFF

The Fluke 43B Power Quality Analyzer combines the most useful capabilities of a power quality analyzer, scope and multimeter in a single easy-to-use instrument. Power measurements include: harmonics, sags and swells, transient capture, R/C/diode continuity and inrush current.

Includes: 43B-003 Power Quality Analyzer (P/N 1615345), Hard Case (P/N C120), Test Leads (P/N TL24), Industrial Test Clips (P/N AC20), Large Jaw Alligator Clips (P/N AC85), Flat-Tipped Slim-Reach Test Probes (P/N TP1), 4 MM Round Slim-Reach Test Probes (P/N TP4), Switchable 400A/40A Current Clamp (P/N i-400s), USB Interface adapter (P/N OC4), NiMH Battery Pack (Installed) (P/N TBD), 8907 Line Voltage Adapter/Battery Charger (P/N PM), Flukeview Power Quality Analyzer Software and User Manual on CD-ROM (P/N SW43W), and Shielded Banana-to-BNC Adapter.



Model	Description	MSRP	GSA Price
43B/AN	600 V, 500 A	\$2,195.00	\$1,443.00

COUNTER

Fluke
PM6690/AN

55% OFF

Fluke Counter/Timer/Analyzer. The PM6690/AN offers unique ease of use and a graphical display. 8 menu driven control systems. With a 750k point memory depth and 250,000 measurements/second to internal memory. Measurements are fast & accurate. USB and GPIB interfaces come standard. 12 digit frequency resolution and 100 ps single shot.



Model	Description	MSRP	Gov Price
PM6690/AN	Counter/Timer/Analyzer	\$6,280.00	\$2,487.00

LCR-QZ METER

GSA Agilent
4263B Series

**SAVE
\$451**

The LCR meter is Agilent Technologies' most cost-effective low-end LCR meter, designed for both component evaluation on the production line and fundamental impedance testing for benchtop applications. In addition to fundamental impedance measurements at test frequency of 100 Hz, 120 Hz, 1 kHz, 10 kHz, and 100 kHz (20 kHz with option 002), the 4263B provides convenient transformer measurement with option 001.

Fast system test throughput

- Maximize testing with rapid 25 ms measurements
- Minimize user intervention with pass/fail testing
- Communicate results with display and GPIB
- Automate testing with built-in handler interface.

Fault-free results

- Test with confidence using contact check function
- Remove parasitics with error correction
- Get the best data with 0.1% basic accuracy
- Eliminate trigger timing errors with trigger delay function

Versatile measurements

- Select from 11 impedance parameters
- Add three complex transformer parameters with Option 4263B-001
- Set signal level with 5mVrms resolution
- Monitor actual ac voltage and current levels
- Pick from many test fixtures and accessories
- Save and recall up to ten measurement setups



100 Hz to 100 KHz LCR METER

Model	Description	MSRP	GSA Price
4263B	100 Hz–100 kHz	\$3,978.00	\$3,544.40
4263B-001	Add N/M/DCR Measurement Function	\$624.00	\$555.98
4263B-002	20 kHz Test Frequency	\$237.00	\$211.17

GSA GSA contract products, (GS24F0066M, GS35F0311R, GS07F0198U, GS07F0437U). Small business credit applies. Free shipping FOB U.S. destinations.

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HIGH FREQUENCY PROBE

GSA Agilent
85024A

The Agilent 85024A high-frequency probe makes it easy to perform in-circuit measurements. An input capacitance of only 0.7 pF shunted by 1 megohm of resistance permits high frequency probing without adversely loading the circuit under test. Excellent frequency response and unity gain guarantee high accuracy in swept measurements with this probe. High probe sensitivity and low distortion levels allow measurements to be made while taking advantage of the full dynamic range of Agilent RF analyzers.



300 KHZ–3 GHz

Model	Frequency Response (Relative To Average Gain)	MSRP	GSA Price
85024A	300 kHz–1 GHz (±1.25 dB), 1 GHz–3 GHz (±2.5 dB)	\$3,821.00	\$3,404.51



DIGITAL DESIGN

WATTMETER

GSA Bird Electronics
43 Thruline®

The Bird Model 43 Thruline® Directional Wattmeter is a field-proven portable, insertion-type instrument designed to measure both forward and reflected CW power in coaxial transmission lines under any load condition. With a full-scale accuracy of ± 5%, it accurately measures RF power with low added VSWR and insertion loss. QC (quick change) type connectors and a full range of plug-in elements provide a wide choice of frequency ranges and power levels. Easy to use and simple to service in the field.

**ONLY
\$314.45**



Model	Description	MRSP	GSA Price
43 Thruline	450 kHz–2.7 GHz & 100 mW–10 K	\$331.00	\$314.45

High-Frequency Elements Entire Table ±8% FS - 30 µA									
Power Range	Frequency Bands (Mhz)								
	950-1260	1100-1800	1700-1990	1990-2200	2200-2300	2300-2400	2400-2500	2500-2600	2600-2700
1 W	1J	1K	1L1	1L2	1M	431-17	431-20	431-23	431-120
2.5 W	2.5J	2.5K	2.5L1	2.5L2	2.5M	431-110	431-107	431-108	431-117
5 W	5J	5K	5L1	5L2	5M	432-15	432-28	432-2	432-12
10 W	10J	10K	10L1	10L2	10M	432-125	432-141	432-102	432-104
25 W	25J	25K	25L1	25L2	25M	433-19	433-20	433-35	433-36
50 W	50J	50K	50L1	50L2	50M	433-37	433-38	433-163	433-164
100 W	100J								
250 W 2	50J								

See prices and full selection of elements online at www.gsasmart.com

14 SLOT COMBINATION PXI CHASSIS

GSA Geotest GX710x Series

**SAVE
\$237**

14-slot combination chassis that accommodates 3U and 6U PXI controllers and instruments in 4U of rack space. The GX710x Series offers a full range of features and options including an innovative forced-air cooling controlled by built-in temperature sensors. Mass interconnect models include a hinged front panel to accommodate devices such as circular military connectors.



Sample Configuration

**PXI 2.1
COMPLIANT**

Model	Description	MSRP	Gov Price
GX7100	Master/Desktop	\$4,495.00	\$4,270.25
GTX2230	2 GHz Time Interval Counter	\$3,850.00	\$3,657.50
GX5152	100 MHz/50 MHz DSR	\$4,750.00	\$4,512.50
GX7404	Power Interface & Prototyping Board	\$1,195.00	\$1,135.25

HIGH-SPEED cPCI DIGITIZER

GSA Agilent Acqiris High-Speed cPCI Digitizers

**SAVE
\$1,632**

The Acqiris product line provides a range of 200 MS/s, 500 MS/s, 1 GS/s, 2 GS/s, 4 GS/s and 8 GS/s high-speed digitizer cards with 1, 2 and 4 input channels, 8, 10 and 12 bit resolution, wide bandwidth and large acquisition memory. Typical applications using these products include T&M ATE, defense RADAR, commercial and industrial T&M ATE, aerospace defense T&M, communications and EW/SIGINT applications.



Model	Description	MSRP	Gov Price
U1066A-002	Dual-channel, 100 MHz, 200 MS/s, Acqiris DC438	\$8,508.00	\$7,580.63
U1061A-002	Dual-channel, 1 GHz, 1-2 GS/s, 128-256 kpoints, DC140	\$9,792.00	\$8,724.68
U1063A-002	Quad-channel, 250 MHz, 1 GS/s, 128 kpoints, DC270	\$12,464.00	\$11,105.43
U1064A-004	Quad-channel, 1 GHz, 1-4 GS/s, 128-512 kpoints, DC271	\$14,974.00	\$13,341.84

THERMOCOUPLE INSTRUMENT

GSA VXI Technology EX1048

**SAVE
\$92**

The EX1048 precision thermocouple instrument combines all of the features necessary to address your most demanding temperature measurement applications in an easy to use package. Exceptional temperature accuracy and stability are available in this scalable, high-density, standalone 1U module that can be directly connected to your Ethernet network.

- Extensive Integrated Signal Conditioning and Filtering
- Direct Ethernet 10/100 Base-T Network Connectivity
- Complete End-to-End Self-calibration
- 1000 Samples/Second/Channel Scan Rate
- Accepts All Standard Thermocouple Types Including J, K, T, E, S, B, R, N



Model	Description	MSRP	Gov Price
EX1048	48-Ch, LXI Compliant	\$4,639.00	\$4,546.22

GSA contract products, (GS24F0066M, GS35F0311R, GS07F0198U, GS07F0437U). Small business credit applies. Free shipping FOB U.S. destinations.

USB-BASED DATA ACQUISITION MODULE

GSA Keithley KUSB-3100 Series

**ONLY
\$345³²**

The Keithley KUSB-3100 Series brings true plug-and-play data acquisition to computers that contain Universal Serial Bus (USB) 2.0 and 1.1 ports. No more opening up your computer chassis to install boards—just plug in the module, install the included software, and you are ready to make measurements.

- 12-bit and 16-bit resolution
- High and low programmable gains
- Input/output speeds up to 500 kS/s



Model	Input	Output	I/O Ch.	MSRP	Gov Price
KUSB-3100	8 SE	2	16	\$349.00	\$345.32
KUSB-3102	16 SE/8 DI	2	17	\$770.00	\$762.42
KUSB-3108	16 SE/8 DI	2	17	\$1,069.00	\$1,058.27
KUSB-3116	16 SE/8 DI	2	33	\$2,640.00	\$2,612.21

NAVICPMart contract products, (N00104-01-D-X407), are pre-negotiated and comply with Competition in Contracting Act (CICA). Free shipping FOB U.S. destinations.

Call toll free 6AM–6PM (PST) 888-665-2765

MULTIFUNCTION SWITCH/MEASURE UNIT

GSA Agilent
34900 Series

**SAVE
\$266**

A compact, economical, one-box solution for medium to high-density switch/measure applications in design verification, automated test and data acquisition. The 34980A is an 8-slot mainframe that has an optional built-in 6.5 digit DMM with your choice of 19 different plug-in modules. The 34980A also includes USB, Ethernet, and GPIB as standard interfaces to the PC. 34945A/EXT Microwave switch/attenuator driver. Can drive up to 64 external switch coils; 32 SPDT switches, 8 multiport switches, 8 attenuators, or your own combination.

LXI class C compliant.



Expand with additional 34945EXTs—\$1,190.00

Mainframe	Model	Description				MSRP	GSA Price	
	34980A	Multifunction Switch/Measure Unit				\$2,443.00	\$2,176.72	
	34970A	Data Acquisition/Switch unit				\$1,558.00	\$1,388.18	
Multiplexer	Module	Description	Max Volts	Max Current	Max Freq			
	34921A	40-Channel Armature Multiplexer w/Low Thermal Offset	±300V	1A	45 MHz	\$809.00	\$720.82	
	34922A	70-Channel Armature Multiplexer	±300V	1A	25 MHz	\$1,306.00	\$1,163.66	
	34923A	40/80-Channel Reed Multiplexer	±150V	0.5A	45 MHz	\$1,012.00	\$901.69	
	34924A	70-Channel Reed Multiplexer	±150V	0.5A	25 MHz	\$1,508.00	\$1,343.63	
	34925A	40/80-Channel Optically Isolated FET Multiplexer	±80V	0.05A	1 MHz	\$1,206.00	\$1,074.55	
Matrix								
	34931A	Dual 4x8 Armature Matrix	±300V	1A	30 MHz	\$910.00	\$810.81	
	34932A	Dual 4x16 Armature Matrix	±300V	1A	30 MHz	\$1,508.00	\$1,343.63	
	34933A	Dual/Quad 4x8 Reed Matrix	±150V	0.5A	30 MHz	\$1,013.00	\$902.59	
	34934A	Quad 4x32 Reed Matrix	±100V	0.5A	20MHz	\$5,099.00	\$4,543.21	
General-purpose	34937A	28-Channel Form C and 4-Channel Form A	300V	1A	10 MHz	\$910.00	\$810.81	
			250VAC	5A				
	34938A	20-Channel 5-Amp Form A	250VAC	5A	1 MHz	\$1,104.00	\$983.66	
	34939A	64-channels Form A	+/-100V	1A/2A	10MHz	\$1,195.00	\$1,065.75	
RF & Microwave	Module	Description	Max Freq	Insertion Loss	Isolation			
	34941A	Quad 1x4 50 Ohm 3 GHz RF Multiplexer	3 GHz	0.6 dB	> 58 dB	\$1,608.00	\$1,432.73	
	34942A	Quad 1x4 75 Ohm 1.5 GHz RF Multiplexer	1.5 GHz	0.6 dB	> 60 dB	\$1,608.00	\$1,432.73	
	34946A	Dual 1x2 SPDT Terminated Microwave Switch	4 GHz	< 0.42 dB	> 85 dB	\$816.00	\$727.06	
			20 GHz	< 0.69 dB	> 67 dB			
	34947A	Triple 1x2 SPDT Underterminated Microwave Switch	4 GHz	< 0.42 dB	> 85 dB	\$816.00	\$727.06	
			20 GHz	< 0.69 dB	> 67 dB			
System Control	Module	Description						
	34950A	64-Bit Digital I/O with Memory and Counter					\$1,206.00	\$1,074.55
	34951A	4-Channel Isolated D/A Converter with Waveform Memory					\$1,013.00	\$902.58
	34952A	Multifunction Module with 32-bit DIO, 2-Channel D/A and Totalizer					\$707.00	\$629.93
	34959A	Breadboard Module					\$503.00	\$447.26

See all 70,000+ GSA models online at www.gsamart.com

DATA ACQUISITION

See more microwave components at www.gsmart.com

GSA Agilent Technologies

Programmable Step Attenuators



Model	Frequency	Atten/Step	Connector	MSRP	GSA Price
8496H	18 GHz	110/10 dB	Type-N, SMA, APC-7	\$1,965.00	\$1,750.82
8495K	26.5 GHz	70/10 dB	3.5 mm	\$1,864.00	\$1,660.83
84904L	40 GHz	11/1 dB	2.4 mm, 2.92 mm	\$3,847.00	\$3,427.68
8496G	4 GHz	110/10 dB	Type-N, SMA, APC-7	\$1,346.00	\$1,199.29
84908M	50 GHz	65/5 dB	2.4 mm, 2.92 mm	\$4,447.00	\$3,962.27

Manual Step Attenuators



Model	Frequency	Atten/Step	Connector	MSRP	GSA Price
8495A	4 GHz	70/10 dB	TType-N, SMA, APC-7	\$864.00	\$769.82
8495B	18 GHz	70/10 dB	Type-N, SMA, APC-7	\$1,098.00	\$978.32
8495D	26.5 GHz	70/10 dB	3.5 mm	\$1,429.00	\$1,273.25
8496A	4 GHz	110/10 dB	Type-N, SMA, APC-7	\$1,009.00	\$899.02
8496B	18 GHz	110/10 dB	Type-N, SMA, APC-7	\$1,475.00	\$1,314.23

Coaxial Directional Coupler



Model	Min Freq	Max Freq	Connector	MSRP	GSA Price
87300B	1 GHz	20 GHz	SMA(f)	\$858.00	\$764.47
87300C	1 GHz	26.5 GHz	3.5 mm(f)	\$1,429.00	\$1,273.25
87300D	6 GHz	26.5 GHz	3.5 mm(f)	\$1,199.00	\$1,068.31
87301B	10 GHz	46 GHz	2.92 mm(f)	\$1,889.00	\$1,683.10
87301D	1 GHz	40 GHz	2.4 mm(f), 2.92 mm	\$2,074.00	\$1,847.94
87301E	2 GHz	50 GHz	2.4 mm(f)	\$1,985.00	\$1,768.64

SPDT Coaxial Switch



Model	Max Freq	Peak Input	Isolation	MSRP	GSA Price
8761A	18 GHz	5kW	50 dB	\$960.00	\$855.37
8761B	18 GHz	5kW	50 dB	\$960.00	\$855.37
8762A	4 GHz	100W	100 dB	\$750.00	\$668.24
8762B	18 GHz	100W	100 dB	\$849.00	\$756.45
8762C	26.5 GHz	100W	90 dB	\$941.00	\$838.43
8765D	40 GHz	100W	90 dB	\$997.00	\$888.33



Power Limiters N9355/6 series



Broadband input power protection for RF and microwave instruments and components against excess RF power, DC transients and ESD.

Model	Max Freq	Max Power	Connector	MSRP	GSA Price
N9355B	18 GHz	1W	Type-N	\$698.00	\$621.91
N9356B	18 GHz	6W	Type-N	\$755.00	\$672.70
N9355C	26.5 GHz	1W	3.5 mm	\$898.00	\$800.11
N9356C	26.5 GHz	4W	3.5 mm	\$952.00	\$848.23
N9355F	50 GHz	.63W	2.4 mm	\$1,089.00	\$970.29

Amplifiers



Model	Freq Range	Type	Gain	MSRP	GSA Price
83006A	10 MHz-26.5 GHz	System	20 dB	\$5,804.00	\$5,171.37
83020A	2 GHz-26.5 GHz	System	30 dB	\$26,556.00	\$23,661.39
83050A	2 GHz-50 GHz	System	21 dB	\$30,648.00	\$27,307.37
87405C	100 MHz-18 GHz	Preamp	25 dB	\$2,439.00	\$2,173.14

Diode Detectors (Low-Barrier Schottky)



Model	Frequency	Connector1	Connector2	MSRP	GSA Price
8472B	18 GHz	SMA(m)	BNC(f)	\$703.00	\$626.37
8473B	18 GHz	3.5 mm(m)	BNC(f)	\$656.00	\$584.49
8470B	18 GHz	APC-7	BNC(f)	\$821.00	\$731.51
8473C	26.5 GHz	3.5 mm(m)	BNC(f)	\$697.00	\$621.02
33330C	26.5 GHz	3.5 mm(m)	SMC(m)	\$679.00	\$604.99
33330B	18 GHz	3.5 mm(m)	SMC(m)	\$645.00	\$574.68

Multiport Switches



Model	Freq Range	Type	Op Life	MSRP	GSA Price
L7104C	DC-26.5 GHz	Terminated/SP4T	2,000,000	\$1,305.00	\$1,162.76
L7106B	DC-20 GHz	Terminated/SP6T	2,000,000	\$1,187.00	\$1,057.63
87104A	DC-4 GHz	Terminated/SP4T	5,000,000	\$1,638.00	\$1,459.46
87106B	DC-20 GHz	Terminated/SP6T	5,000,000	\$2,223.00	\$1,980.70

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GSA Aeroflex/Weinschel



Programmable Attenuator Units



Model	Frequency	Atten/Size	Connector	MSRP	GSA Price
8310-1-F	1 GHz	0-63/10 dB	BNC(f)	\$2,528.00	\$2,426.88
8310-353-2-F	6 GHz	0-103/1 dB	N(f)	\$5,192.00	\$4,984.32
8310-35-4-T-E	3 GHz	0-127/10 dB	N(f)	\$7,675.00	\$7,368.00
8311-202-2-F	18 GHz	0-121/10 dB	SMA(f)	\$8,785.00	\$8,433.60

Continuously Variable Attenuators



Model	Frequency	Atten/Size	Connector	MSRP	GSA Price
940-114-11	4 GHz	0-114/10 dB	SMA(f)	\$1,456.00	\$1,397.76
940-114-33	4 GHz	0-114/10 dB	N(f)	\$1,453.00	\$1,394.88
940-114-34	4 GHz	0-114/10 dB	N(m)	\$1,467.00	\$1,408.32
940-60-11	4 GHz	0-60/10 dB	SMA(f)	\$1,217.00	\$1,168.32
940-60-33	4 GHz	0-60/10 dB	N(f)	\$1,241.00	\$1,191.36
940-60-34	4 GHz	0-60/10 dB	N(m)	\$1,228.00	\$1,178.88

Programmable Attenuators



Model	Frequency	Atten/Step	Connector	MSRP	GSA Price
3408-103	6 GHz	103/1 dB	SMA	\$1,043.00	\$1,001.28
3201-1E	3 GHz	31/1 dB	SMA	\$677.00	\$649.92
150-70	18 GHz	70/10 dB	3.5mm	\$1,265.00	\$1,214.40
4238-63.75	2.5 GHz	63.75/0.25 dB	SMA	\$550.00	\$528.00

Coaxial Terminations



Model	Frequency	Power	Connector	MSRP	GSA Price
1452-2	4 GHz	25W	2.92mm(m)	\$146.30	\$140.45
1434-3	2.5 GHz	500W	N(f)	\$685.00	\$657.60
RS3016	18 GHz	1W	SMA(m) Subminiature	\$18.00	\$17.28
1431-1	18 GHz	100W	3.55mm(f)	\$528.00	\$506.88
1445A-1	40 GHz	5W	2.92mm(f)	\$300.00	\$288.00
F1460	50 GHz	2W	2.4mm(f) Subminiature	\$250.00	\$240.00

Manual Step Attenuators



Ideal for demanding broadband accuracy with low SWR and accurate repeatability over large attenuation ranges.

Model	Frequency	Atten/Size	Connector	MSRP	GSA Price
3054	6 GHz	0-70/1 dB	SMA(f)	\$1,369.00	\$1,314.24
3007-100	2.5 GHz	0-10/10 dB	SMA(f)	\$627.00	\$601.92
AC115A-9-11	4 GHz	0-9/10 dB	SMA(m)	\$1,478.00	\$1,418.88
AF9003-69-11	18 GHz	0-69/10 dB	SMA(f)	\$1,921.00	\$1,844.16
9012-70	26.5 GHz	0-70/10 dB	2.92mm(f)	\$2,450.00	\$2,352.00

Fixed Coaxial Attenuators



Model	Frequency	Power	Connector	MSRP	GSA Price
3M-10	12.4 GHz	2W	SMA(m)-SMA(f)	\$73.00	\$70.08
54A-10	40 GHz	2W	2.92mm(m)-2.92mm(f)	\$225.00	\$216.00
40-10-34	1.5 GHz	150W	N(f)-N(m)	\$380.00	\$364.80
48-10-11	18 GHz	100W	3.5mm(f)-3.5mm(f)	\$561.00	\$538.56
34-10-34	4 GHz	25W	N(f)-N(m)	\$144.00	\$138.24
89-10-12	40 GHz	20W	2.92mm(f)-2.92mm(f)	\$1,266.00	\$1,215.36

Planar Crown® Connectors



Model	Frequency	Type	Connector	MSRP	GSA Price
7005A-3	18 GHz	Crown	N(f)	\$88.00	\$84.48
7005A-1	26.5 GHz	Crown	SMA(f)	\$82.00	\$78.72
7005A-7	34 GHz	Crown	3.5mm(m)	\$103.00	\$98.88
7005A-12	40 GHz	Crown	2.4mm(f)	\$127.00	\$121.92
7004A-1	40 GHz	Bulkhead	2.92mm(f)	\$56.00	\$53.76

Mechanical Phase Shifters



Model	Frequency	Phase Shift	Connector	MSRP	GSA Price
980-3	7 GHz	85°	SMA(f)	\$251.00	\$240.96
980-1	3 GHz	140°	SMA(f)	\$220.00	\$211.20
980-4	12.4 GHz	290°	SMA(f)	\$270.00	\$259.20
980-2	3 GHz	340°	SMA(f)	\$247.00	\$237.12



Programable Step Attenuators



Model	Frequency	Power	Connector	MSRP	GSA Price
4412K	20 GHz	70 dB	K(f)-K(f)	\$1,690.00	\$1,613.95
4422K	20 GHz	110 dB	K(f)-K(f)	\$1,880.00	\$1,795.40
4512K	26.5 GHz	70 dB	K(f)-K(f)	\$1,850.00	\$1,766.75
4522K	26.5 GHz	110 dB	K(f)-K(f)	\$2,070.00	\$1,976.85
4612K	40 GHz	70 dB	K(f)-K(f)	\$2,100.00	\$2,005.50
4622K	40 GHz	110 dB	K(f)-K(f)	\$2,350.00	\$2,244.25

Autotesters



Ideal for checking amplifiers, directional couplers, attenuators, filters, splitters, and terminations.

Model	Frequency	Directivity	Connector	MSRP	GSA Price
560-98K50	40 GHz	35 dB	K(m)	\$3,500.00	\$3,342.50

RF and Microwave Cables



Model	Frequency	Length	Connector	MSRP	GSA Price
N120-6	18 GHz	15 cm	N(m)-N(m)	\$230.00	\$219.65
NS120MF-6	18 GHz	15 cm	N(m)-SMA(f)	\$240.00	\$229.20
K120FF-10CM	40 GHz	10 cm	K(f)-(K(f)	\$140.00	\$133.70
K120FF-150CM	40 GHz	150 cm	K(f)-(K(f)	\$270.00	\$257.85
V120FF-10CM	65 GHz	10 cm	V(f)-V(f)	\$255.00	\$243.53
V120FF-150CM	65 GHz	150 cm	V(f)-V(f)	\$395.00	\$377.23

Precision Coaxial Adapters



Model	Frequency	Connector	MSRP	GSA Price
34AN50	18 GHz	GPC-7-N(m)	\$500.00	\$477.50
34RKNF50	18 GHz	K(m)-N(f)	\$400.00	\$382.00
34SFSF50	26.5 GHz	WSMA(f)-WSMA(f)	\$450.00	\$429.75
34RKRF50	40 GHz	K(m)-K(m)	\$500.00	\$477.50
34RVRV50	60 GHz	V(m)-V(m)	\$700.00	\$668.50

Precision Fixed Attenuators



Model	Frequency	Attenuation	Connector	MSRP	GSA Price
41KB-3	26.5 GHz	3 dB	K(m)-K(f)	\$290.00	\$276.95
41KB-20	26.5 GHz	20 dB	K(m)-K(f)	\$290.00	\$276.95
41KC-3	40 GHz	3 dB	K(m)-K(f)	\$350.00	\$334.25
41KC-20	40 GHz	20 dB	K(m)-K(f)	\$350.00	\$334.25
41V-3	65 GHz	3 dB	V(m)-V(f)	\$500.00	\$477.50
41V-20	65 GHz	20 dB	V(m)-V(f)	\$500.00	\$477.50

Launches and Cable Connectors



Models	Frequency	Type	Connector	MSRP	GSA Price
K101F	40 GHz	In-line Cable Connector	K(f)	\$34.38	\$32.83
K102F	40 GHz	Sparkplug Launcher Connector	K(f)	\$20.13	\$19.22
K103F	40 GHz	Flange Launcher Connector	K(f)	\$24.14	\$23.05
V101F	65 GHz	In-line Cable Connector	V(f)	\$38.83	\$37.08
V102F	65 GHz	Sparkplug Launcher Connector	V(f)	\$44.01	\$42.03
V103F	65 GHz	Flange Launcher Connector	V(f)	\$46.28	\$44.20

Calibration and Verification Kits



Model	Type	Connector	MSRP	GSA Price
3651	Calibration	GPC-7	\$3,500.00	\$3,342.50
3652	Calibration	K	\$5,300.00	\$5,061.50
3653	Calibration	N	\$5,900.00	\$5,634.50
3650	Calibration	SMA/3.5mm	\$5,500.00	\$5,252.50
3654C	Calibration	V	\$12,750.00	\$12,176.25
3667	Verification	GPC-7	\$4,700.00	\$4,488.50
3668	Verification	K	\$4,100.00	\$3,915.50
3663	Verification	N	\$3,900.00	\$3,724.50
3666	Verification	SMA/3.5mm	\$3,900.00	\$3,724.50
3669B	Verification	V	\$5,500.00	\$5,252.50

ADVANCED MODULAR CALIBRATOR

GSA GE Sensing & Inspection Technologies DPI 620

An advanced modular calibration system that uses three basic components to provide the multi-functionality to perform duties formerly requiring a wide range of different instruments. The DPI 620 is an electrical, frequency and temperature calibrator that provides simultaneous measurement and source capabilities including mV, V, ohms and a variety of RTDs and thermocouples.

Pressure measurement and generation is also provided by connecting interchangeable pressure modules and selecting one of three pressure bases for 95% vacuum to 15,000 psi.



Model	Description	GSA Price
DPI 620	Advanced Modular Calibrator	Starting at \$8,950.00

MODULAR PRESSURE CONTROLLER

GSA GE Sensing & Inspection Technologies PACE 5000

The PACE 5000 pneumatic pressure controller combines the latest control and measurement technology to offer an elegant yet economical solution to pressure control for production, test and calibration. A high resolution touch screen with simple icon-driven menus allows comprehensive functionality and performance. Selectable and interchangeable control modules are available in ranges from 10 inch H₂O through 3,000 psi and provide precision of better than 0.02% while offering high speed control, stability and operation.



Model	Description	GSA Price
PACE 5000	Modular Pressure Controller	Starting at \$8,050.00

HYDRAULIC AND PNEUMATIC TESTER

GSA GE Sensing & Inspection Technologies P3000

The Pressurements line of hydraulic and pneumatic deadweight testers provides an extensive series of primary piston standards with 0.015% of reading accuracy from vacuum through 60,000 psi. With an optional accuracy class of 0.008% available, these easy-to-use standards boast several operational and maintenance features designed specifically for performance and precision.



Model	Description	GSA Price
P3100	Oil Operated Hydraulic Deadweight Testers	Starting at \$7,900.00
P3200	Water Operated Hydraulic Deadweight Testers	Starting at \$7,900.00
P3000	Pneumatic Deadweight Testers	Starting at \$7,900.00

CHILLED MIRROR HYGROMETER

GSA GE Sensing & Inspection Technologies OptiSonde

The OptiSonde is a humidity indicator, transmitter and data logger. It's the first chilled mirror hygrometer to provide laboratory precision in a compact and economical package suitable for industrial applications.

Calibrate and verify a wide variety of humidity sensors and instruments. Document environmental conditions of process and storage areas. Utilize the technology of choice for monitoring humidity and temperature in pharmaceutical process, environmental test chambers, automotive and aerospace engine emissions and testing, heat exchanger and air conditioning.



Model	Description	GSA Price
OptiSonde	Chilled Mirror Sensor	Starting at \$6,900.00

OHMMETERS & PROBES



PPM

R1L Series & Test Probes

**SAVE
\$450**

R1L Series low resistance meters and bond meters use four-wire measurements to eliminate connection resistance errors. Low-cost table-top instrument perfect for the lab, ruggedized version can be taken virtually anywhere. Ultimate precision offering autoranging and high-resolution.



R1L-C with accessories



R1L-BR



R1L-B



R1L-D1

PPM Probes offer durability and precision to ensure long term resistance measurement integrity. Choose from BCP10 and BCP-20 gold plated probes for tight spaces. A wide variety of pin configurations is available. Choose SSP-10 probes with Duralloy heavy duty pins for heavier duty applications. HTP-100 "pistol grip" probes are the heaviest duty probes utilizing rotating spring loaded stainless steel pins that cut through surface debris. PPM's gold plated KTL-100 kelvin alligator clip leads are time proven as the most durable kelvin clip leads available. All PPM probes and clip leads can be configured to match any manufacturer's 4 wire ohmmeter.



HTP-100



Model	Description	MSRP	GSA Price
R1L-C	Earth Resistance Tester 10 mOhm to 20K Ohm	\$3,023.75	\$2,720.00
R1L-B	Digital Milliohmmeter / Bond Meter 2 mOhm to 20 Ohms, Full Scale	\$1,315.00	\$1,185.00
R1L-BR	Rugged Digital Milliohmmeter / Bond Meter 2 mOhm to 20 Ohms, Full Scale	\$1,515.00	\$1,469.55
R1L-D1	Portable High Resolution Ohmmeter (6 digit) 200 mOhm to 2K Ohm Full Scale	\$3,020.00	\$2,570.00
R1L-E1	Safe in explosive atmospheres. Mil PRF 28800 and Mil Std 810E	\$4,325.00	\$4,239.00
R1L-E2	Bond Meter Intrinsically Safe, UL 913, ATEX, CE, CSA	\$5,825.00	\$5,650.25
R1L-E2B	Bond Meter Intrinsically Safe, UL 913	\$5,230.00	\$5,075.00
R1M-B	Hand-Held Megohmmeter/Voltmeter 200M Full Scale, 500 VDC Test Voltage	\$535.00.00	\$485.00
Probe	Description	MSRP	GSA Price
SSP-10	Duralloy pins (Replaceable) (Pair)	\$519.00	\$505.00
KTL-100	Kelvin Clip Leads (Pair)	\$270.00	\$265.00
HTP-100	Pistol Grip Probes (Pair)	\$820.00	\$795.40
HTP-101	Intrinsically Safe HTP-100 (Pair)	\$870.00	\$845.00



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NULLMETER & NANOVOLTMETER

GSA PPM
AVM-2000

**SAVE
\$179**

The AVM-2000 is a calibration lab grade nullmeter and nanovoltmeter. It can be used as a stand-alone precision voltmeter or in conjunction with Kelvin Varley dividers and other cal lab equipment. Since the AVM-2000 has a very high sensitivity front end with extremely high common mode rejection it is ideal for any measurements requiring a comparison function. It is specifically designed for standards comparison.

- F/S Range 100 nV to 1000V
- 21 Ranges, 1-3-10 Sequence
- 2 nV Resolution
- Wide Range of Filters
- >100 GΩ Isolation
- Floating Measurements to 1000V
- Calibration Laboratory Stability
- Battery/Line Operation
- Wide Range of Offsets
- Self-Contained Zero & Gain Set



Model	Description
AVM-2000	Voltmeter/ Null Detector 100 nV to 1000 V

MSRP	GSA Price
\$5,985.00	\$5,805.45

PORTABLE HIGH CURRENT TEST SET

GSA Phenix Technologies
HC2

**SAVE
\$216**

The HC2 is capable of a 2000 amp instantaneous output. Sufficient current is available for testing the time delay characteristics of motor overload relays and molded case circuit breakers. The main application for these test sets is primary injection testing of molded case and open frame circuit breakers. They can also be utilized for various other high current applications. The units are designed to be field transported for on-site testing. Some models offer a micro-processor based control with a PC interface for control and report generation. Input: Either 115 VAC, 60 Hz or 220 VAC, 50/60 Hz.



Model	Description	MSRP	GSA Price
HC2	2000 A Max Output	\$7,200.00	\$6,984.00

TRUE-RMS MULTIMETER KIT

GSA Fluke
87V/E2 Kit

New! 87V/E2 Industrial Combo Kit

Make industrial troubleshooting even more productive. Save over \$50 compared with the individual purchase price.

Kit contents:

- 87V Industrial Multimeter
- C35 Lightweight soft case to provide optimal protection and accessory storage
- TL224 1.5 m silicone leads resist heat
- TP238 Removable probes with 4mm of exposed metal for use on industrial circuits
- AC220 Retractable long reach alligator clips
- ToolPak Magnetic hanger to position and hold meter to steel surfaces
- 80BK K-type temperature probe



Model	Description	MSRP	GSA Price
87-5/E2 Kit	Industrial Electrician Combo Kit	\$429.95	\$374.09

200 MHz HANDHELD OSCILLOSCOPE



Fluke
199C/AN

41% OFF

Offers specifications usually found on top-end bench instruments. With 200 MHz bandwidth, 2.5 GS/s real time sampling and a deep memory of 27,500 points per input it is ideal for engineers who need the full capabilities of a high-performance scope in a hand-held, battery powered instrument. Isolated inputs.



Includes: Color ScopeMeter 200 MHz / 2.5 GS/s (p/n 199C), Battery Charger/Line Voltage adapter (p/n BC190), NiMH Battery Pack (p/n BP190), Hard Point Test Lead Set (p/n TL75), Shielded Test Lead Set (p/n STL90), Voltage Probe (200 MHz, 10:1), Grey (p/n VPS200-G), Probe Accessory Set, Grey (p/n AS200-G), Voltage Probe (200 MHz, 10:1), Red (p/n VPS200-R), Probe Accessory Set, Red (p/n AS200-R), Optically Isolated RS-232 Adapter Compatibility (p/n PM9080/001), Interface Cable (p/n OC4USB), FlukeView ScopeMeter Software (p/n SW90W), Hard Case (p/n C190), Getting started booklet, User manual (CD-ROM).

Model	Includes	MSRP	Gov Price
199C/AN	FlukeView Software	\$3,834.00	\$2,261.00

THREE-PHASE POWER ANALYZERS



Fluke
430 Series

SAVE \$713

The new IEC standards for flicker and power quality are built-in as well as analysis for true-RMS & peak voltage and current, frequency, dips and swells, transients, interruptions, power and power consumption, peak demand harmonics, inter-harmonics, flicker and unbalance.



Model	Description	MSRP	GSA Price
434-003	Three-Phase Power Quality Analyzer w/FlukeView Software & Cable	\$5,343.00	\$4,629.10

GSA GSA contract products, (GS24F0066M, GS35F0311R, GS07F0198U, GS07F0437U). Small business credit applies. Free shipping FOB U.S. destinations.

AIR TESTER



Fluke
975 AirMeter™

SAVE \$337

The Fluke 975 AirMeter™ raises indoor air monitoring to the next level by combining five powerful tools in one rugged and easy-to-use handheld tool. The Fluke 975 AirMeter test tool makes indoor air quality testing easier and faster.

It measures:

- Temperature
- Velocity
- Humidity
- CO₂
- CO



Model	Description	MSRP	GSA Price
975 AirMeter	Optimize HVAC Vent Settings	\$2,595.00	\$2,257.65

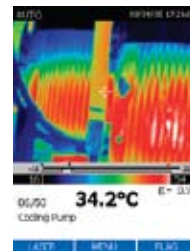
THERMAL IMAGER



Fluke
Ti20

SAVE \$239

'Point-and-shoot' operation & intuitive on-screen guidance, automatically adjusts the temperature range to show a crisp image. Through the software (included), key image parameters can be changed to optimize the image and extract maximum detail.



FREE 7-DAY TRIAL

Model	Description	MSRP	GSA Price
Ti20	Thermal Imager	\$6,495.00	\$6,255.20

GSA NAVICPMart contract products, (N00104-01-D-X407), are pre-negotiated and comply with Competition in Contracting Act (CICA). Free shipping FOB U.S. destinations.

MODULAR DC POWER ANALYZER

GSA Agilent
N6705A

10% OFF

The N6705A DC Power Analyzer provides unrivaled productivity gains for sourcing and measuring DC voltage and current into the DUT by integrating up to 4 advanced power supplies with DMM, Scope, Arb, and Datalogger features. It eliminates the need to gather multiple pieces of equipment and create complex test setups including transducers to measure current into your DUT. The DC Power Analyzer also eliminates the need to develop and debug programs to control a collection of instruments and take useful measurements because all functions and measurements are available at the front panel. Fully programmable over GPIB, USB, LAN and is LXI Class C Compliant.

**FREE
7-DAY
TRIAL**



Model	Description	MSRP	Gov Price
N6705A	4-slot Mainframe Up To 600W	\$6,884.00	\$6,133.65

DC POWER SUPPLY

GSA Agilent
E3600A Series

**SAVE
\$102**

These supplies combine convenient benchtop capabilities with flexible system features in a compact, multi-output package. Utilize GPIB and RS-232 interfaces with SCPI command set (drivers available).



**Power Supplies
up to
20% OFF
MSRP**

Model	Power	Max/Output 1	MSRP	GSA Price
E3631A	80W	30W, 6V, 5A	\$1,266.00	\$1,124.36
E3646A	54W	24W, 8V, 3A	\$1,011.00	\$900.81
E3647A	58W	28W, 35V, 0.8A	\$1,011.00	\$900.81
E3648A	90W	40W, 8V, 5A	\$1,209.00	\$1,073.58
E3649A	97W	49W, 35V, 1.4A	\$1,209.00	\$1,073.58

DC POWER SUPPLY

GSA Agilent
N5700 Series

**SAVE
\$320**

The Agilent N5700 series programmable DC power supplies include GPIB, LAN, and USB 2.0 interface standard in a compact (1U) package.

LXI class C compliant.

**MORE VOLT/AMP
COMBOS AVAILABLE**



750 Watt	Volts	Amps	MSRP	GSA Price
N5744A	20	38	\$2,443.00	\$2,173.08
N5745A	30	25	\$2,443.00	\$2,173.08
N5746A	40	19	\$2,443.00	\$2,173.08
N5747A	60	12.5	\$2,443.00	\$2,173.08
N5748A	80	9.5	\$2,443.00	\$2,173.08
1500 Watt				
N5764A	20	76	\$2,895.00	\$2,574.89
N5765A	30	50	\$2,895.00	\$2,574.89
N5766A	40	38	\$2,895.00	\$2,574.89
N5767A	60	25	\$2,895.00	\$2,574.89
N5768A	80	19	\$2,895.00	\$2,574.89

RACK POWER SUPPLY

GSA Kepco
KLP Series

**SAVE
\$89**

Laboratory grade power supply. The voltage/current limits are automatically recalculated, forming a constant-power hyperbolic-shaped boundary between the voltage and current modes.

Example: the single model KLP 75-33-1200 operates as a 0-75V/16A power supply or a 0-36V/33A power supply and all 1200W volt-ampere combinations in between.



Model	Voltage	Efficiency	MSRP	GSA Price
	0-20V	84%	\$1,795.00	\$1,705.25
KLP 36-60-1200	0-36V	84%	\$1,795.00	\$1,705.25
KLP 75-33-1200	0-75V	84%	\$1,795.00	\$1,705.25
KLP 150-16-1200	0-150V	86%	\$1,795.00	\$1,705.25
KLP 300-8-1200	0-300V	87%	\$1,795.00	\$1,705.25

See more products at www.gsamart.com

PROGRAMMABLE AC TO DC POWER SUPPLIES

GSA TDK-Lambda
Genesys™ Series

The only advanced 1U to 3U half and full rack high-power programmable AC to DC power supplies with identical user interface. Offers highest power density and zero stack, RoHS compliance, standard RS-232/RS-485 Interface and all popular worldwide AC inputs. Available options include LXI Certified LAN, GPIB multi-drop and Isolated Analog Programming.

**NOW ON
GSA**



**RoHS
COMPLIANT***

- High current up to 1,000ADC
- Highest power density; 1.5kW in 1U, 5kW in 2U, 15kW in 3U
- Wide range of popular worldwide AC Inputs 10 230VAC, 30 208VAC, 400VAC, 480VAC depending on platform
- Highest power factor 0.8–0.99 depending on platform
- Output voltage up to 600V, current up to 1,000A
- Built-in RS-232/RS-485 interface standard
- The only AC/DC programmable supply shipping with RoHS compliance, RoHS GEN 1U and 2U available now, RoHS GEN 3U April 2009*

Model	Max Watts	Max Volts	Max Amps	Height	MSRP	GSA Price
1U 750W Half Rack	750W	600	100	1U	\$1,260.00	\$1,197.00
1U 750W	750W	300	100	1U	\$1,230.00	\$1,168.50
1U 1500W	1500W	600	200	1U	\$1,560.00	\$1,482.00
2U 3.3kW	3.3kW	600	400	2U	\$2,990.00	\$2,840.50
2U 5kW	5kW	600	600	2U	\$3,990.00	\$3,790.50
3U 10kW	10kW	600	250	3U	\$6,095.00	\$5,790.25
3U 10kW High Current	10kW	30	1000	3U	\$6,400.00	\$6,080.00
3U 15kW	15kW	600	250	3U	\$8,295.00	\$7,880.25

GSA GSA contract products, (GS24F0066M, GS35F0311R, GS07F0198U, GS07F0437U). Small business credit applies. Free shipping FOB U.S. destinations.



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Call toll free 6AM-6PM (PST) 888-665-2765

IN CIRCUIT TROUBLESHOOTER

GSA PPM EL Series

The EL Series of DC Electronic Loads is a line of air-cooled DC electronic loads used to test DC power sources, such as batteries, power supplies, generators, chargers, fuel cells and other power sources. Power ratings range from 1000W to 10KW, and are available in 1000 Watt increments. Models are available with 60V, 100V, or 500V voltage rating, and current ratings up to 1000A. Control is either by a front panel potentiometer or a 0 to +10 V analog control signal on standard units, with computer control options available.



Model	Watts	Amps	Volts	MSRP	GSA Price
EL-1000-200-100	1000	200	100	\$4,100.00	\$3,980.00
EL-1000-200-400	1000	200	400	\$4,407.50	\$4,275.28
EL-2000-200-100	2000	200	100	\$5,740.00	\$5,570.00
EL-2000-200-400	2000	200	400	\$6,406.25	\$6,215.00
EL-3000-200-100	3000	200	100	\$7,380.00	\$7,160.00
EL-3000-200-400	3000	200	400	\$8,405.00	\$8,155.00
EL-4000-200-100	4000	200	100	\$9,020.00	\$8,750.00
EL-4000-200-400	4000	200	400	\$10,403.75	\$10,095.00

DC POWER SUPPLY

GSA AMETEK/Sorensen DLM 600W

The DLM 600W series of programmable power supplies is designed to provide continuously variable output voltage and current for a broad range of applications in a compact 1U (1.75 inches) high, half-rack (8.5 inch) wide chassis.

The DLM 600W models are ideal for high density multiple output rackmount requirements or low profile benchtop applications. Output voltages from 0-5VDC to 0-300VDC and currents from 0-2A to 0-75A are available.



Model	Watts	Volts	Amps	MSRP	GSA Price
DLM5-75	375	0-5	0-75	\$1,215.00	\$1,154.25
DLM10-60	600	0-10	0-60	\$1,215.00	\$1,154.25
DLM40-15	600	0-40	0-15	\$1,215.00	\$1,154.25
DLM300-2	600	0-300	0-2	\$1,215.00	\$1,154.25

AC POWER SUPPLY

GSA AMETEK/Elgar SmartWave™

**SAVE
\$845**

The SmartWave™ Series (SW) of AC power sources offers powerful waveform creation for ATE and power line disturbance simulation testing. Three separate arbitrary waveform generators enable the SmartWave to create independent, complex waveforms on all three phases simultaneously. The SmartWave is designed to meet waveform requirements including DC content (up to 312V), low distortion (THD 0.25% to 100 Hz), low noise and ripple, plus full compliance testing to EMC standards. SW Series offers 3-wire or 4-wire AC input, input power correction to 0.99 and 16A/phase output.



*Base model, see the entire SmartWave Series at www.xantrex.gsamart.com

Model	Output	AC Input Range	MSRP	GSA Price
SW1750A*	1750 VA	187-457 VRMS (L-L)	\$9,780.00	\$9,291.00
SW3500A*	3500 VA	187-457 VRMS (L-L)	\$13,060.00	\$12,407.00
SW5250A*	5250 VA	187-457 VRMS (L-L)	\$16,900.00	\$16,055.00

Government agencies save on all 70,000+ GSA models online at www.gsmart.com

EMERGENCY PREPAREDNESS KIT

GSA Innery Power IP123EP

**ONLY
\$258**

Innery Power's Emergency Preparedness Kit is a unique power solution designed to meet the basic communication and lighting needs of victims of natural disasters and blackouts as well as rescue personnel. The heart of the Emergency Preparedness Kit is the IP1208PP Power Pack, a 12V, 8Ah source of power that can be recharged from the sun, from the wall or from the cigarette lighter (DC outlet) receptacle of a car or truck.

Kit includes:

- IP1208PP 12V, 8Ah Power Pack
- Detachable DC outlet
- 12V wall charger
- Auto (car/truck) charging cord
- 12V halogen light
- Ballistic nylon carrying case



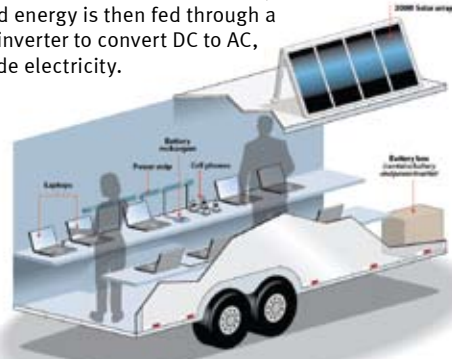
Model	Description	MSRP	GSA Price
IP123EP	Emergency Power Kit	\$320.00	\$258.00

PORTABLE SOLAR CHARGING STATION

GSA Innery Power IPS200

**SAVE
\$1,310**

The Innery Power Station™ is a portable power solution that converts sunlight into both AC and DC power to run a wide range of equipment and devices used in emergency rescue and recovery operations. The station consists of 200 watts of solar array that charges a 12V,100Ah VDC battery. That stored energy is then fed through a 1550 watt inverter to convert DC to AC, utility-grade electricity.



Model	Description	MSRP	GSA Price
IPS200	200W, 12V, 100Ah	\$4,300.00	\$2,990.00

PORTABLE SOLAR BINDER PACK

GSA Innery Power IP15B, IP22B

**ONLY
\$112**

Innery Power's portable solar binder packs consists of three lightweight fiberglass (FRP) solar modules built into a zippered, ballistic nylon binder. This unique power solution comes equipped with a built-in cigarette lighter receptacle (DC plug) on a 10' cord that allows users to recharge and/or power such devices as cell phones and PDAs.

When used to recharge the Power Plant 12V, 5Ah notebook battery (IP1205), that battery can power other devices such as laptop PCs up to appx. 3.5A, portable DVD players, MP3 players, iPods, GPS units and satellite radios. Great for powering satellite phones anywhere on earth.



Model	Description	MSRP	GSA Price
IP15B	15W Solar Binder Pack	\$140.00	\$112.00
IP22B	22W Solar Binder Pack	\$190.00	\$153.00

GSA contract products, (GS24F0066M, GS35F0311R, GS07F0198U, GS07F0437U). Small business credit applies. Free shipping FOB U.S. destinations.

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SECURITY INFORMATION MANAGEMENT

GSA VidSys VidShield Software

VidShield is the industry-leading software product for centralized management of video cameras regardless of camera type or manufacturer. Operators can view and select from a comprehensive list of deployed video resources, can view a variety of geographic representations of the locations of those deployed resources, can configure the presentation of simultaneous live video feeds in a variety of screen layouts, and can selectively control any remote PTZ cameras. VidShield can be used standalone or as a companion to RiskShield for the verification of situations in progress - drastically cutting the time often required for on-scene inspection of situations resulting from the triggering of other security devices.

**SAVE
\$1,350**



Model	Description	MSRP	GSA Price
VS-3.X-5D	VidShield Device Software License, 5 Device Pack	\$2,500.00	\$2,312.50
VS-3.X-20D	VidShield Device Software License, 20 Device Pack	\$7,500.00	\$6,937.50
VS-3.X-50D	VidShield Device Software License, 50 Device Pack	\$18,000.00	\$16,650.00

VIDEO ENTRY SECURITY SYSTEMS

GSA Aiphone Communication Systems

Aiphone products range from simple do-it-yourself door answering units to sophisticated video entry security systems, complex microprocessor-based commercial systems, and luxury condo/apartment security and communication systems. Our products are unrivaled in design simplicity, technical excellence and reliability. With over 25 standard systems, and additional manufacturing by special order, we can create a system for virtually any intercom application.



**ONLY
\$78⁸²**

Model	Description	MSRP	GSA Price
KB-3MRD	KB Color Master Station	\$1,224.50	\$720.17
LEF-3	3-Call Master Station	\$176.00	\$103.52
MK-DV	Vandal Fixed Door Station	\$362.00	\$212.90
MP-1S	1-Call Master Station	\$160.48	\$94.38
NEM-40/C	40-Call Master	\$1,752.00	\$1,030.40
SBX-2G	2-Gang Mount Box	\$134.00	\$78.82

WIRELESS VIDEO AND AUDIO RECORDING

GSA CamLite 1000 Series, 2000 Series

Model 1000 System

The ultimate easy to use wireless video and audio recording system. Housed in a rugged flashlight body with transmission capability of up to 1,000 feet.

Model 1000 Base Station

Carry your Model 1000 in a hard protective case with a built in viewing screen, a digital video recorder and player, extra batteries, and integrated battery chargers.

Model 2000 System

A digital video recording system housed in the rugged CamLite flashlight body. Uses a 2GB SD card for over 2 hours of recording.



Model	Description	MSRP	GSA Price
CL 1000	Video & Audio Recorder	\$2,495.00	\$2,370.25
CL 1000 Base	Base Station	\$3,995.00	\$3,795.25
CL 2000	Digital Video Recorder	\$1,495.00	\$1,420.25

FREE OPTION

with handheld purchase

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Spring 2009

25 MHz–4 GHz Cable & Antenna Tester



N9330B
**GSA Price
\$6,436**

Up to **\$514** in free options:
Electronic calibrator N9330B-203
USB power sensor support N9330B-PWM

Stretch your budget with an
Agilent RF handheld and
your **FREE** option!

4/6 GHz Cable & Antenna, RF & Spectrum Analyzer



N9912A
**GSA Price
\$6,770**

**NEW
COMPLETE
SOLUTION**

Up to **\$951** in free options:
QuickCal N9912A-111
USB power sensor support N9912A-302
Network analysis capability N9912A-303

100 kHz–3 GHz RF Spectrum Analyzer



N9340B
**GSA Price
\$7,580**

Up to **\$720** in free options:
AM/FM modulation analysis N9340B-AMA
ASK/FSK modulation analysis N9340B-DMA
Spectrogram monitoring N9340B-INM
3 GHz pre-amplifier N9340B-PA3

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**20%
OFF**

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6033A
0-20V/0-32A/242W



6032A
0-60V/0-50A/1200W



E3631A
Triple output 80W-200W



6651A
0-8V/0-20A/150W



N6700 Family
200V/0.75A/150W



6671A
0-8V/0-220A/1760W

See all **70,000+** GSA models online at www.gsamart.com